



Enodis

COOK/CHILL HORIZONTAL AGITATOR STATIONARY MIXER KETTLES

Cleveland Standard Features

- Full 60, 100, 150, 200 or 300 gallon working capacity
- Electrically driven, Horizontal Agitator Mixer Arm
- Variable mixer speed control
- Spring loaded blades scrape entire heated surface area
- Internal mixing fins for most efficient, uniform mixing, heating and cooling
- Flush mounted, easily removable temperature probe
- Simmer control for cooking delicate products
- 3" diameter air operated, flush mounted piston draw-off valve (requires air compressor)
- Spiral flights for even water cooling
- Easily removable agitator without the use of tools
- Spring assist, one piece cover (bifold cover with counterweight for 300 gallon model)
- Heavy duty rim bar
- 100 psi steam jacket rating and safety valve
- Type 316 stainless steel for all food contact surfaces
- Water fill faucet with swing spout
- Kettle mounted valve box for single point utility connections
- NSF approved
- Accepted for use in USDA inspected facilities

Note: This COOK/CHILL mixer kettle requires a control panel for operation. (Please specify remote mounted control center or kettle mounted control center.)

Standard Features for Kettle Control Center:

- Solid State temperature control with digital read-out
- Time/Temperature Chart Recorder to provide permanent record of Batch Processing
- Automatic and manual steam control
- Automatic and manual jacket water cooling
- Simmer control for delicate products
- Automatic water meter with accumulative "add on" button and digital readout
- U.L. approved

Options & Accessories

- Single or dual remote control center
- Kettle mounted control center (100 gal. and larger)
- Dolly for horizontal agitator
- Stainless steel bifold hinged cover

- MODELS:**
- | | |
|---|---|
| <input type="checkbox"/> HA-MKDL-60-CC | <input type="checkbox"/> HA-MKDL-200-CC |
| <input type="checkbox"/> HA-MKDL-100-CC | <input type="checkbox"/> HA-MKDL-300-CC |
| <input type="checkbox"/> HA-MKDL-150-CC | |



ITEM NUMBER _____

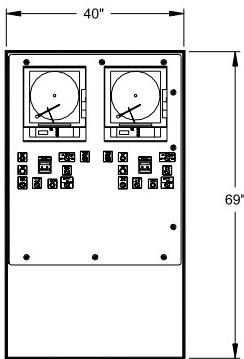
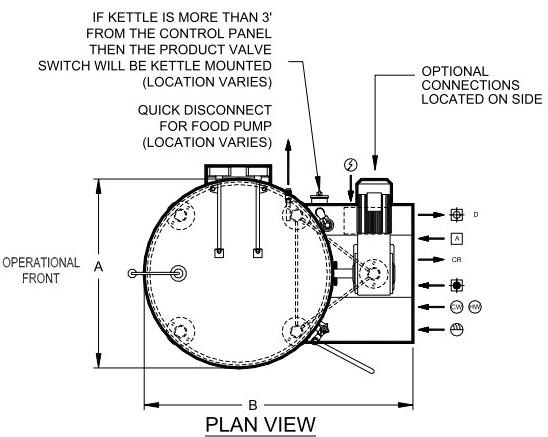
JOB NAME / NUMBER _____



Short Form Specifications

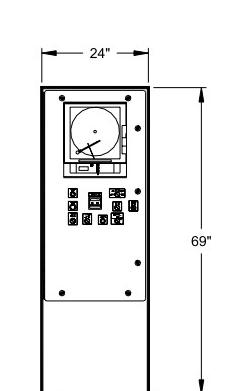
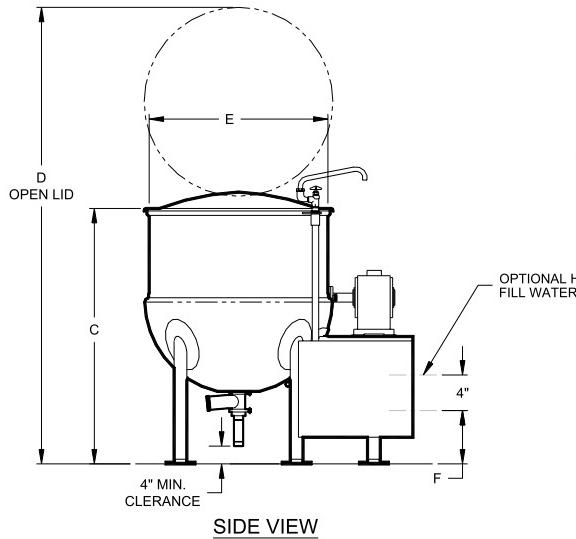
Shall be CLEVELAND Model HA-MKDL-__-CC; COOK/CHILL STATIONARY HORIZONTAL MIXER KETTLE, ___ gallons; leg mounted; 2/3 jacketed, direct steam; 100 psi Steam Jacket Pressure Rating; 316 Stainless Steel Liner; electrically driven Horizontal Agitator; Variable Mixer Speed Control; 3" diameter air operated, flush mounted Piston Draw-Off Valve; spring loaded Scraper Blades; flush mounted Temperature Probe; Automatic Water Meter with Digital Readout; Water Fill Faucet with swing spout; Time/Temperature Chart Recorder (located in Control Center); Spring Assist, one piece Cover (bifold cover with counterweight for 300 gallon model).

- Tilting models
- 3" flush mounted ball valve
- Loading bucket and dolly
- Jacket pressure ratings other than standard
- Electric chain hoist for lifting the product load



MINIMUM CLEARANCE FOR KETTLES

FRONT	36"
SIDE	12"
REAR	12"



ELECTRICAL POWER TO AND FROM CONTROL PANEL

- CONTRACTOR MUST CUT ENTRY HOLE
- TOP OR BOTTOM POWER ENTRY RECOMMENDED
- MUST USE PROPER CONNECTIONS TO MAINTAIN U.L. LISTING

HA-SE-CC2
SINGLE CONTROL PANEL

DIMENSIONS

MODEL	A	B	C	D	E	F	⚡ ELECTRICAL PER KETTLE - 208V/3PH/60Hz	R.P.M.
HA-MKDL-60-CC	32 1/2"	50 3/4"	47"	83"	29 1/2"	8"	12 AMPS	4-25
HA-MKDL-100-CC	38 5/16"	57"	52"	93"	35"	9"	15 AMPS	3-22
HA-MKDL-150-CC	43"	62"	57 1/2"	101"	40"	9"	25 AMPS	3-20
HA-MKDL-200-CC	48"	65 3/4"	62"	111"	45"	9"	25 AMPS	3-20
HA-MKDL-300-CC	53"	76 3/8"	67 1/2"	100"	50"	11"	30 AMPS	3-17

UTILITY CONNECTIONS

MODEL	CHILLED WATER INLET	CHILLED WATER RETURN	COLD POTABLE WATER	** HOT WATER	CONDENSATE RETURN	DRAIN	AIR INLET	STEAM
HA-MKDL-60-CC					CR	D		
HA-MKDL-60-CC	3/4" 15 GPM	3/4"	1/2" 15 GPM	1/2" 15 GPM	1/2"	3/4"	1/2" 1 CFM	3/4" 320 lbs/hr
HA-MKDL-100-CC	1" 20 GPM	1"	3/4" 20 GPM	3/4" 20 GPM	3/4"	1"	1/2" 1 CFM	1" 525 lbs/hr
HA-MKDL-150-CC	1 1/4" 20 GPM	1 1/4"	3/4" 20 GPM	3/4" 20 GPM	1"	1 1/4"	1/2" 1 CFM	1 1/4" 780 lbs/hr
HA-MKDL-200-CC	1 1/4" 25 GPM	1 1/4"	3/4" 20 GPM	3/4" 20 GPM	1"	1 1/4"	1/2" 1 CFM	1 1/4" 1050 lbs/hr
HA-MKDL-300-CC	1 1/2" 30 GPM	1 1/2"	3/4" 20 GPM	3/4" 20 GPM	1"	1 1/2"	1/2" 1 CFM	1 1/2" 1575 lbs/hr

** HOT FILL WATER IS OPTIONAL

65 PSI STEAM OPERATING PRESSURE IS RECOMMENDED

(NOT TO SCALE)
SECT. XIV PAGE 8
1201

J. C. PARDO & SONS, Inc.

Stainless Steel and Nickel Fabricators

Manufacturers of Steam Jacketed Kettles and Tanks



1250 REAMES ROAD, OFF PULASKI HWY.

TELEPHONE: 391-3600 - 391-3603
(AREA CODE 410)

BALTIMORE, MARYLAND 21220

INSTALLATION INSTRUCTIONS

1. WHEN REMOVING THE KETTLE FROM THE PLATFORM, HANDLE WITH CARE TO PREVENT SCRATCHING OR ANY OTHER DAMAGE. IT IS IMPERATIVE THAT THE KETTLE BE LEVEL BEFORE BOLTING TO THE FLOOR. THIS WILL PREVENT ANY TWIST OR OUT OF ROUNDNESS TO THE KETTLE AND WILL STOP DEFLECTION OF THE AGITATOR. MAKE SURE THE KETTLE IS SECURELY BOLTED TO THE FLOOR AND FOLLOW THE PROCEDURE LISTED BELOW:

- A. RAISE THE FLANGE ON THE LEG OR LEGS UNDER THE MOTOR SO THAT IT SETS FREELY.
- B. BECAUSE MOST FLOORS HAVE A PITCH TO ALLOW FOR DRAINING THE FLANGES CAN ONLY BE LOWERED APPROXIMATELY 1" DOWNWARD. IF THERE IS ANY VOD BETWEEN THE FLANGE AND THE FLOOR YOU MUST USE SHIMS TO FILL UP THE SPACE.
- C. LOWER THE FLANGE OR FLANGES UNDER THE MOTOR CHANNEL. OVER ADJUSTMENT, WHETHER UP OR DOWN, COULD CAUSE MISALIGNMENT AND CAUSE DAMAGE TO THE AGITATOR DRIVE SHAFT AND HUB. WHEN THIS IS COMPLETED YOU ARE THEN READY TO BOLT THE FLANGE OR FLANGES TO THE FLOOR.

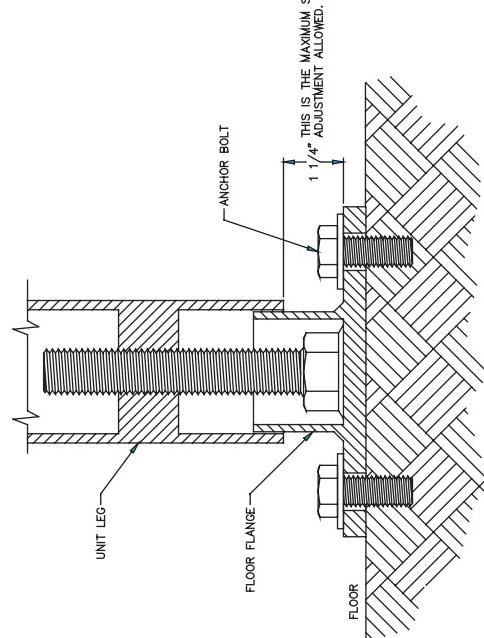
2. NEXT YOU MUST CHECK THE ALIGNMENT OF THE DRIVE SHAFT FOR A UNIFORM CLEARANCE BETWEEN THE HUB AND THE SHAFT. IN ORDER

TO CHECK FOR CLEARANCE YOU MUST REMOVE THE SEAL COVER PLATE AND PULL THE SEAL BACK. YOU CAN CHECK THE DISTANCE FOR CLEARANCE BY USING A WIRE FEELER GUAGE.

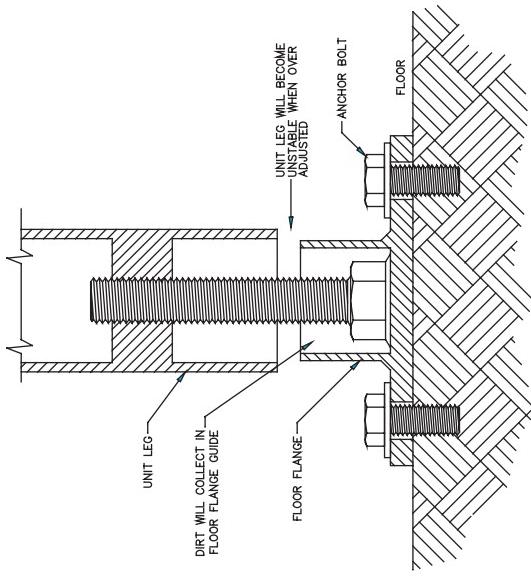
3. IF ADJUSTMENT IS REQUIRED FOR SIDE DIRECTION, LOOSEN THE MOTOR BOLTS, CENTER THE SHAFT AND RETIGHTEN.

IF VERTICAL ALIGNMENT IS NEEDED, LOOSEN THE MOTOR BOLTS AND ADD A SHIM TO RAISE OR REMOVE A SHIM TO LOWER. RETIGHTEN BOLTS. WHEN THIS IS COMPLETE, CHECK TO SEE IF THE AGITATOR SHAFT COUPLING SLIDES FREELY FOR EASY REMOVAL OF THE AGITATOR.

NOTES:
AFTER UNIT IS LEVEL, ANCHOR ALL FLOOR FLANGES
TO THE FLOOR BY USING AN ANCHOR BOLT IN EACH
HOLE OF THE FLANGES.

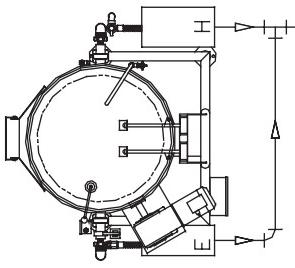
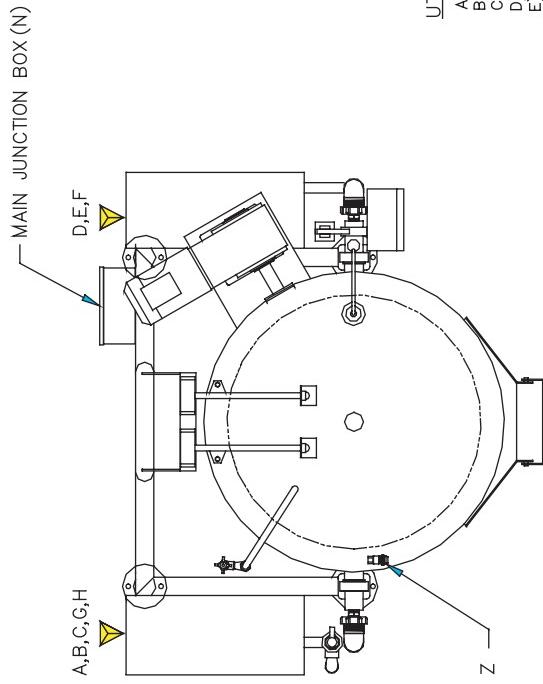


CORRECT ADJUSTMENT
OF FLOOR FLANGE



INCORRECT ADJUSTMENT
OF FLOOR FLANGE

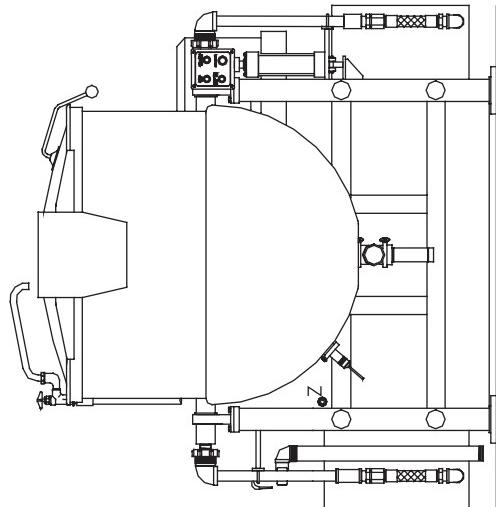
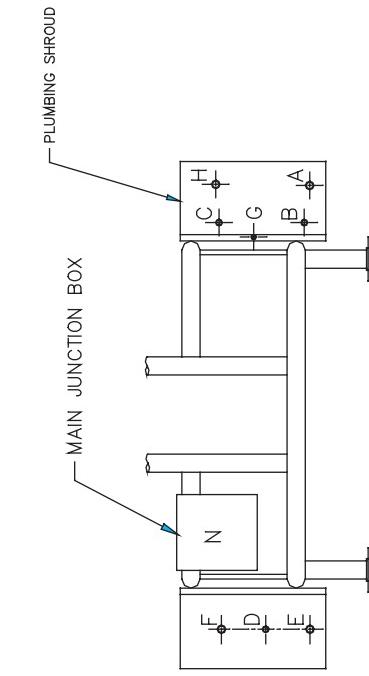
J.C.PARDO & SONS INC. 1250 REAMES RD. BALTO MD. 21220 PHONE (410) 391-3600	CHECKED BY: DRAWN BY: JAY S.	2" TO 2 1/2" FLOOR FLANGE ADJUSTMENT INSTRUCTIONS	SIZE: B	DRAWING NUMBER: 8576
APPROVED BY: SCALE:NONE	DATE:4-27-96	This drawing and all information contained therein is the property of J.C.Pardo & Sons Inc. Balto MD. It must not be made public or copied. It is a controlled document and is to be handled as such. It is the property of J.C.Pardo & Sons Inc. It is to be returned to J.C.Pardo & Sons Inc. in any way detrimental to J.C.Pardo & Sons Inc.	REV.	SHEET 1 of 1



WATER CONSERVATION OPTION:
THE JACKET DRAIN LINE CAN DUMP INTO
THE COOLING WATER OUT LINE AS SHOWN
ABOVE.

UTILITY CONNECTIONS

- A) 1 1/4" NPT STEAM IN
- B) 3/4" NPT COLD POTABLE WATER
- C) 3/4" NPT HOT POTABLE WATER (OPTIONAL)
- D) 1 1/4" NPT COOLING WATER IN
- E) 1 1/4" NPT JACKET DRAIN
- F) 1" NPT CONDENSATE RETURN
- G) 1/2" NPT AIR IN
- H) 1 1/4" NPT COOLING WATER OUT
- I) MOTOR & CONTROL POWER IN FROM
MAIN CONTROL PANEL.
- J) AIR CONNECTION FOR FOOD PUMP
- K) AIR CONNECTION FOR FOOD PUMP

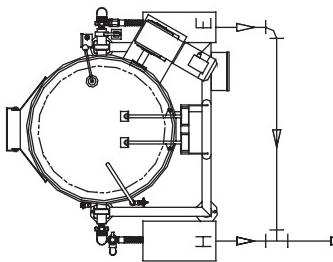


REAR DETAIL WITH UTILITY CONNECTIONS

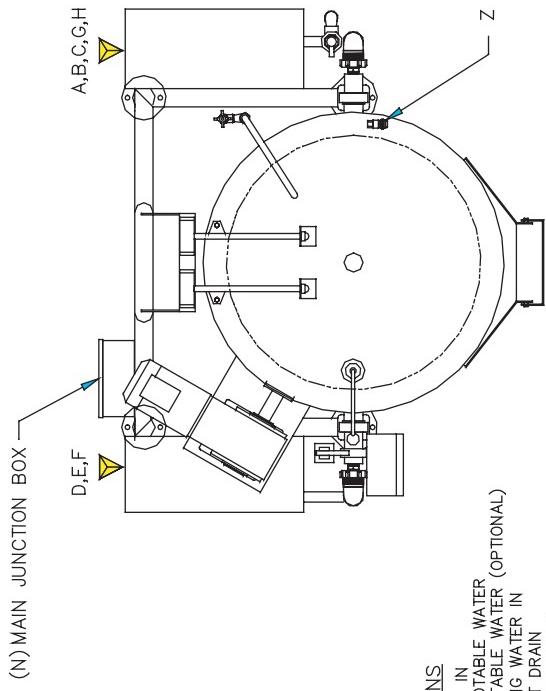
REV.	DESCRIPTION	BY	DATE	DRAWN BY: JAY S.	CHECKED BY:	APPROVED BY:	HA-MKDL-150-CC-T (R.H.)	SIZE:	DRAWING NUMBER:
	REVISIONS						BALTO MD. 21220 PHONE (410) 391-3600 FAX (410) 391-9042	REV. 2/27/03 SCALE: NONE	SHEET 1 of 1

J.C.PARDO & SONS INC.
1250 REAMES RD. BALTO MD. 21220
PHONE (410) 391-3600 FAX (410) 391-9042

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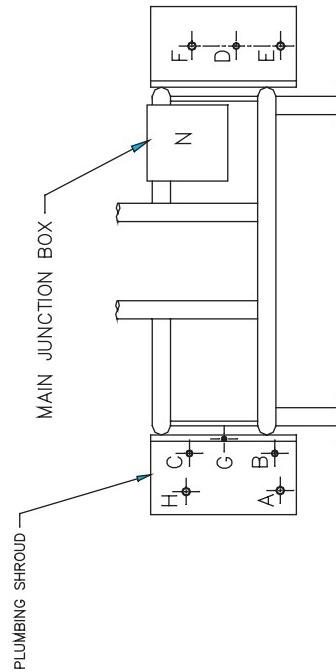
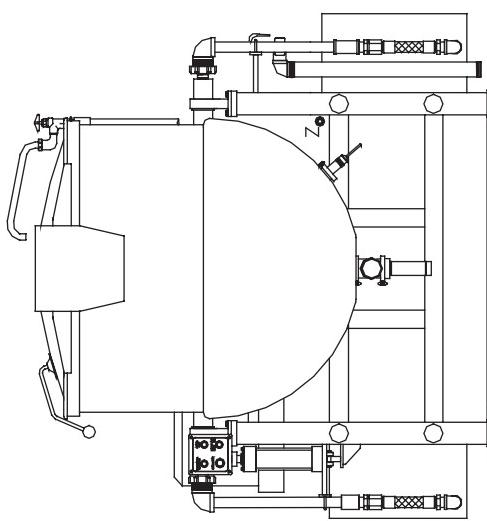


WATER CONSERVATION OPTION:
THE JACKET DRAIN LINE CAN DUMP INTO
THE COOLING WATER OUT LINE AS SHOWN
ABOVE.



UTILITY CONNECTIONS

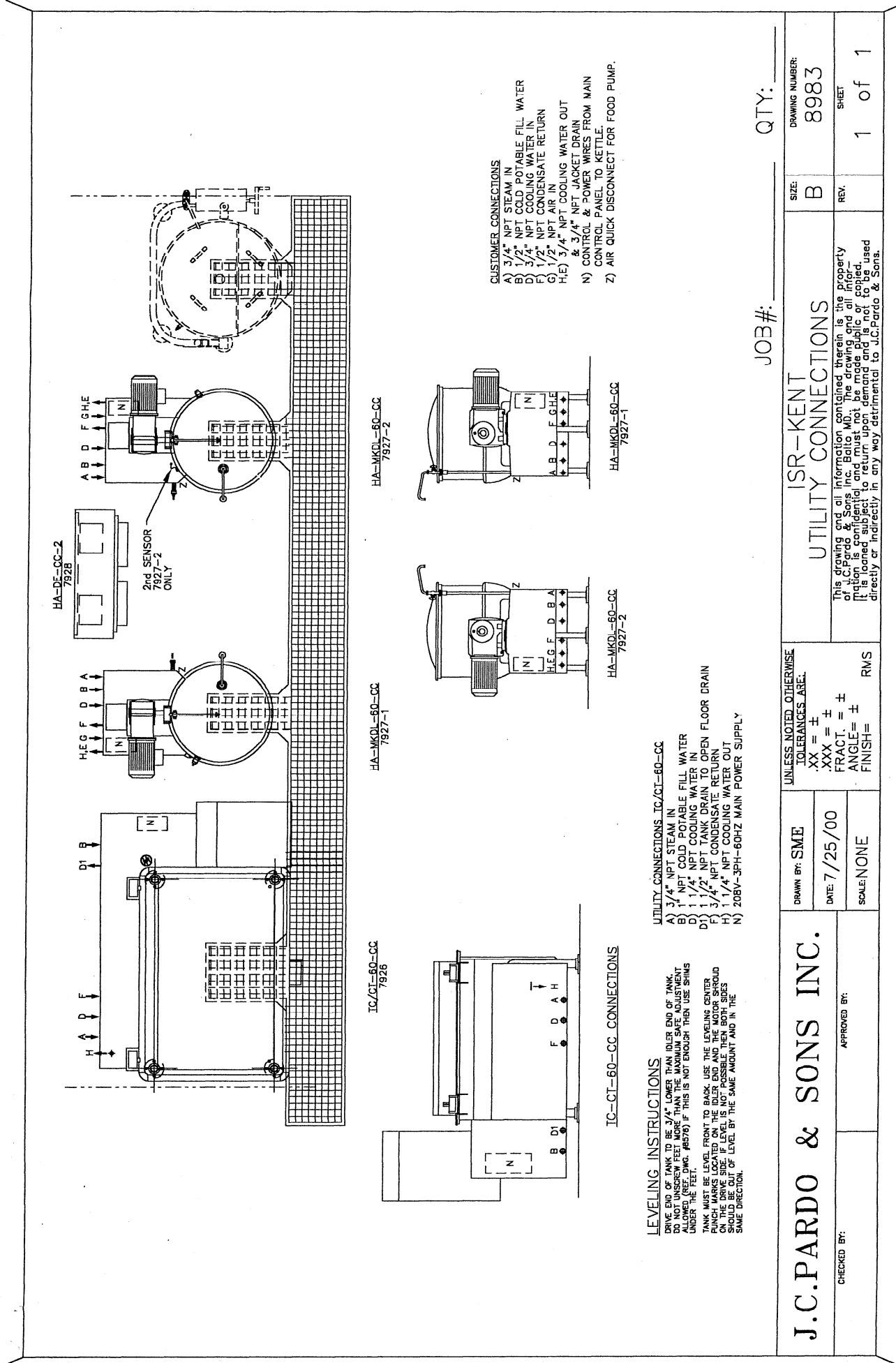
- A) 1 1/4" NPT STEAM IN
- B) 3/4" NPT COLD POTABLE WATER (OPTIONAL)
- C) 3/4" NPT HOT POTABLE WATER (OPTIONAL)
- D) 1 1/4" NPT COOLING WATER IN
- E) 1 1/4" NPT JACKET DRAIN
- F) 1" NPT CONDENSATE RETURN
- G) 1/2" NPT AIR IN
- H) 1 1/4" NPT COOLING WATER OUT
- I) MOTOR & CONTROL POWER IN FROM MAIN CONTROL PANEL.
- J) AIR CONNECTION FOR FOOD PUMP



REAR DETAIL WITH UTILITY CONNECTIONS

REV.	DESCRIPTION	BY	DATE	DRAWN BY: JAY S.	CHECKED BY:	APPROVED BY:	SCALE: NONE	REVISIONS:	PART NUMBER: HA-MKDL-150-CC-T (L.H.)	SIZE: C	PRINTING NUMBER: 9196-L
									BALTO MD. 21220 PHONE (410) 391-3860 FAX (410) 391-9042		SHEET 1 of 1

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Cleveland Range, LLC.

1333 East 179th Street

Cleveland, OH 44110

Phone: (216) 481-4900

Fax: (216) 481-3782

<http://www.clevelandrange.com>

MIXER KETTLES

Kettle Placement

- Level
- Centered on hoist rail
- All legs bolted to floor
- Gear box properly supported
- Proper clearance
- Pasta basket and batch bucket clearances
- Floor drains and poor paths

Model no._____

Serial no._____

Comments:

Electrical Requirements

- Voltage
- Phase
- Amp draw
- Wire Size
- Check motor rotation

Water requirements

1. Hot and cold water supply (Potable)

- Line size
- Maximum water pressure
- Line strainers
- Pressure regulator
- Water quality

2. Chilled Water

- Line sizes (in and out)
- Locate and inspect line strainer
- Check for leaks

Steam Requirements

- Locate steam source
- Line sizes (in and out)
- Steam pressure
- Steam gauge
- Check safety valve operation
- Check for leaks

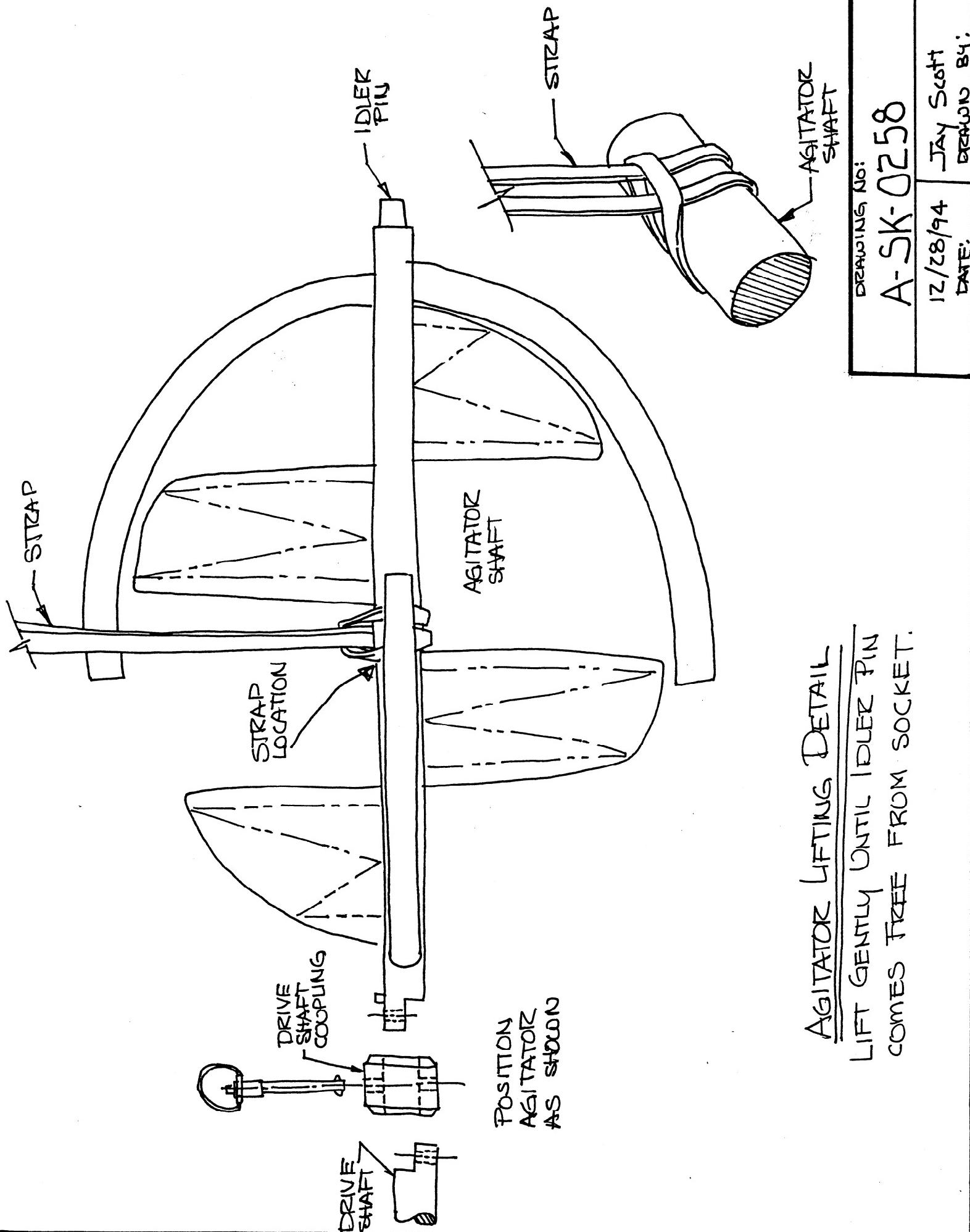
Air Requirements

- Line size
- Pressures
- Check lubricator
- Check for leaks

DAILY CLEANING INSTRUCTIONS OF AGITATOR ASSEMBLY

FOLLOW THE INSTRUCTIONS LISTED BELOW TO REMOVE THE AGITATOR:

- A. ROTATE THE AGITATOR UNTIL THE PULL PIN IS ON THE TOP SIDE.
- B. TURN POWER OFF TO AVOID ACCIDENTS.
- C. PULL PIN OUT. SLIDE COUPLING TOWARD SEAL AND CAREFULLY LIFT AGITATOR AND PULL BACK TO LIFT OUT. BY EXCEEDING TOO MUCH FORCE WHEN LIFTING THE AGITATOR UP, AND WITHOUT PULLING BACK, YOU WILL BEND THE IDLER BEARING SLEEVE WELDED IN THE INTERIOR OF THE KETTLE.



Agitator Lifting Detail

LIFT GENTLY UNTIL IDLER PIN
COMES FREE FROM SOCKET.

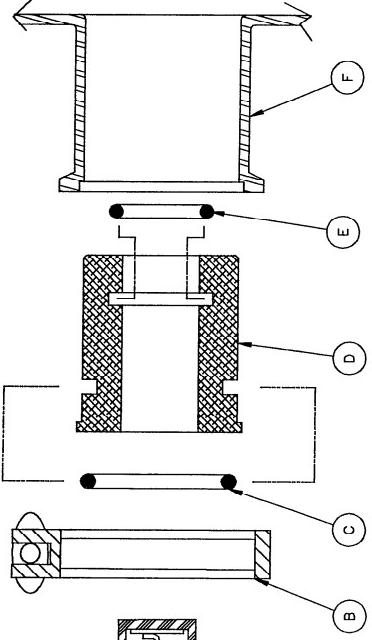
AGITATOR
SHAFT

DRAWING NO:

A-SK-0258

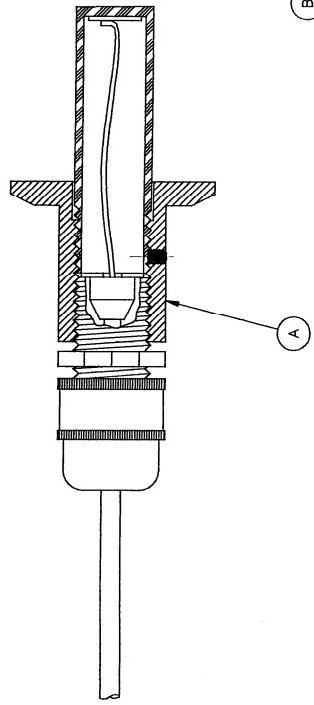
JAY Scott

DATE: DECEMBER 84;



CLEANING INSTRUCTIONS

1. BE SURE KETTLE IS EMPTY AND MAIN POWER IS DISCONNECTED.
2. REMOVE CLAMP "B" AND SLIDE TEMP. PROBE ASSEMBLY "A" OUT OF THE SEAL HOLDER "D". PLACE PROBE ASSEMBLY IN HOLDER ON KETTLE LEG.
3. SLIDE SEAL HOLDER "D" OUT OF THE FERRULE "F" AND REMOVE INNER AND OUTER O-RINGS "C" AND "E".
4. CLEAN ALL PARTS THROUGHLY.

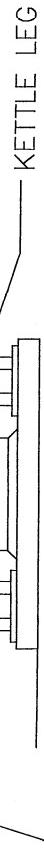


REASSEMBLY INSTRUCTIONS

1. LUBRICATE O-RINGS WITH CHESTERTON 622, USDA APPROVED OR EQUIVALENT BEFORE REASSEMBLY.
2. INSTALL LUBRICATED O-RINGS "C" & "E" INTO SEAL HOLDER "D".
3. INSTALL SEAL HOLDER "D" WITH O-RINGS "C" & "E" INTO FERRULE "F".
4. SLIDE TEMP. PROBE ASSEMBLY "A" INTO SEAL HOLDER "D".
5. REPLACE CLAMP "B".

WARNINGS

1. FAILURE TO PLACE PROBE ASSEMBLY IN HOLDER COULD RESULT IN DAMAGE.
2. DO NOT USE CAUSTIC SODA ON PARTS "C", "D", OR "E" AS THIS WILL RESULT IN DAMAGE.



TEMP SENSOR HOLDER

B	ADDED LINE NOTE 2	TJK 6/10/96	LY	4/27/95	J.C.PARDO & SONS INC.	CREATED BY:	DRAWN BY L.Y.	TEMPERATURE SENSORS
A	REDRAWN FROM HAND AND ADDED NOTES.	BY	DATE	4/27/95	BAUTO MD. 21220	APPROVED BY	DATE	CLEANING INSTRUCTIONS
REV.	DESCRIPTION	BY	DATE	4/27/95	PHONE (410) 391-3660	FAX (410) 391-9042	4/27/97	SCALE NONE
	REVISIONS							

PRINTED ON 4/27/95 BY J.C. Pardo & Sons Inc.

8322

SECT

B

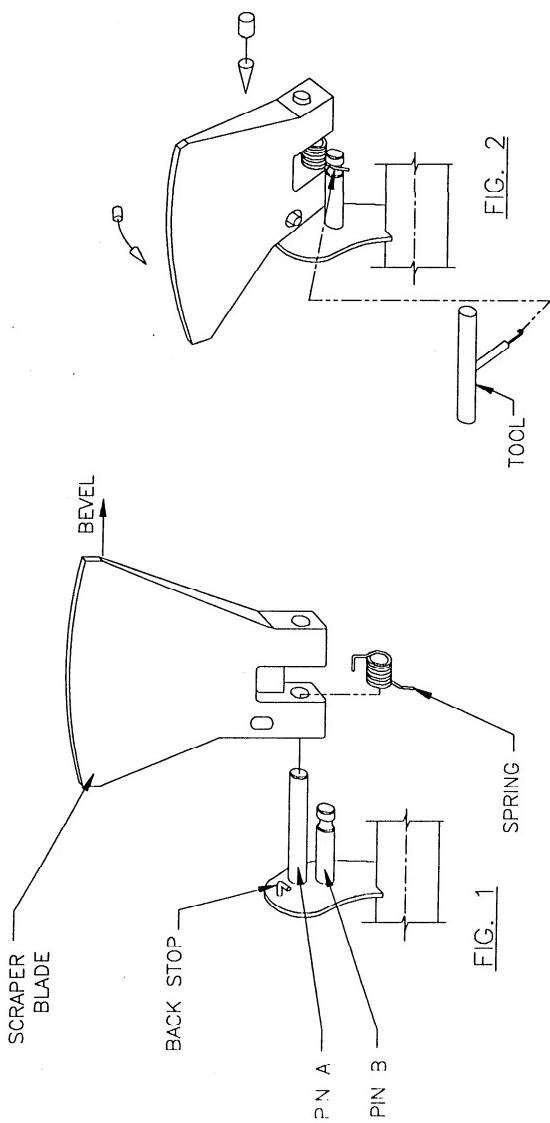
1 of 1

TO REMOVE TEFLON SCRAPER BLADE

INSERT TOOL THAT IS PROVIDED IN AREA INDICATED IN FIG. # 2. FULL UP ON SPRING ARM UNTIL SPRING ARM CLEARS GROOVE IN "PIN B." GENTLY RELEASE SPRING. SPRING IS NOW DISENGAGED. REMOVE SCRAPER.

TO INSTALL TEFLON SCRAPER BLADE

SLIDE SCRAPER BLADE AND SPRING ONTO "PIN A" AS SHOWN IN FIG. # 1 & FIG. # 2 USING TOOL THAT IS PROVIDED. SPRING ARM & PULL UP. SLIDE ASSEMBLY ON AND HOOK SPRING ARM IN GROOVE ON "PIN B" AND RELEASE.



JOB #

J.C.PARDO & SONS INC.

1250 REAMES RD.  BALTIMORE, MD. 21220

SCALE NONE APPROVED BY DRAWN BY
DATE 4/25/95 *Laurie Yori* LAURIE YORI
INSTALLATION & REMOVAL OF
SCRAPER BLADE & SPRING

DRAWING NUMBER REV.
SHEET 1 of 1 B 8059 A

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INSTALLATION OF NEW SCRAPER BLADE

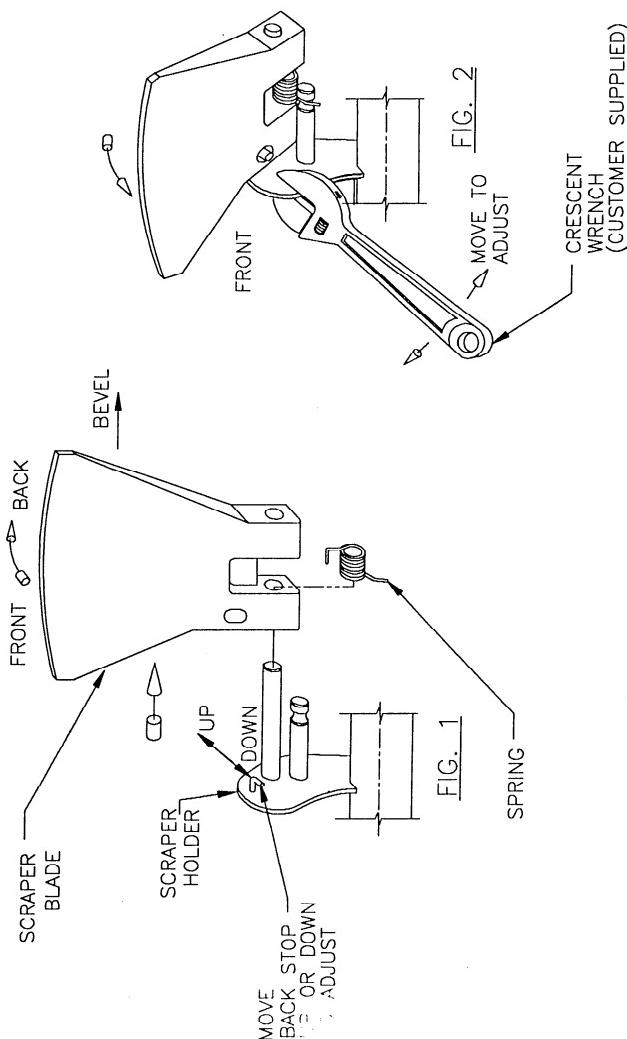
WHEN INSTALLING A NEW SCRAPER BLADE THERE MAY BE SOME ADJUSTMENTS REQUIRED TO MAKE IT LAY FLAT TO FOLLOW THE CONTOUR OF THE KETTLE. IF THE BLADE DOES NOT FIT YOU MAY HAVE TO GRIND EITHER THE TWO EDGES OF THE BLADE, OR THE CENTER OF THE BLADE (PER. DETAIL A).

NOTE # 1

WHEN THERE IS TOO MUCH OR TOO LITTLE PRESSURE ON THE SCRAPER BLADE, BEND THE BACK STOP DOWN TO DECREASE THE PRESSURE OR BEND IT UP TO INCREASE THE PRESSURE ON THE BLADE WHEN SCRAPING THE KETTLE SURFACE (PER. FIG. 1).

NOTE # 2

IF ONLY ONE CORNER OF THE SCRAPER BLADE IS TOUCHING THE KETTLE SURFACE, USE A CRESCENT WRENCH AND SLIGHTLY TWIST THE SCRAPER HOLDER SO THE ENTIRE BLADE SCRAPES THE KETTLE WALL WITH EVEN PRESSURE.



DETAIL A

JOB #

J.C.PARDO & SONS INC.

1250 REAMES RD.  BALTO. MD. 21220

DRAWN BY:

DATE 4/25/95 APPROVED BY: Laurie Yori

REPLACEMENT AND FITTING
SCRAPER BLADE & SPRING

REV. 1 DRAWING NUMBER: 8230

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SCALE/NOTE	4/25/95	APPROVED BY: <u>Laurie Yori</u>	DRAWN BY: <u>Laurie Yori</u>
DATE	4/25/95	REPLACEMENT AND FITTING SCRAPER BLADE & SPRING	REV. <u>1</u> DRAWING NUMBER: <u>8230</u>

INSTRUCTIONS:

1. DISCONNECT THE AIR LINE FROM THE VALVE ACTUATOR AS SHOWN IN FIGURE 1.
2. WHILE SUPPORTING THE VALVE ACTUATOR TO THE SIDE UNTIL THE STEM IS CLEAR OF THE TEE, THEN LOWER THE VALVE ACTUATOR AND SWING IT TO THE SIDE AS SHOWN IN FIGURE 2.
3. REMOVE THE STEM FROM THE VALVE ACTUATOR BY PULLING UP WHILE HOLDING THE VALVE ACTUATOR IN PLACE AS SHOWN IN FIGURE 2. NEXT REMOVE THE O-RING FROM THE ACTUATOR & STEM AS SHOWN IN FIGURE 3.
4. REMOVE THE TOP CLAMP FROM THE TEE AND THEN REMOVE THE TEE AS SHOWN IN FIGURE 4.
5. REMOVE THE O-RINGS FROM THE TEE AS SHOWN IN FIGURE 4.

SEE DRAWING C-8630 FOR ASSEMBLY INSTRUCTIONS.

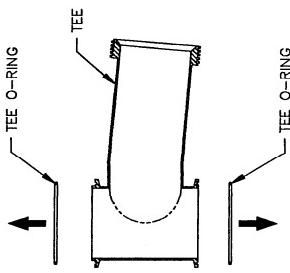


FIGURE 4

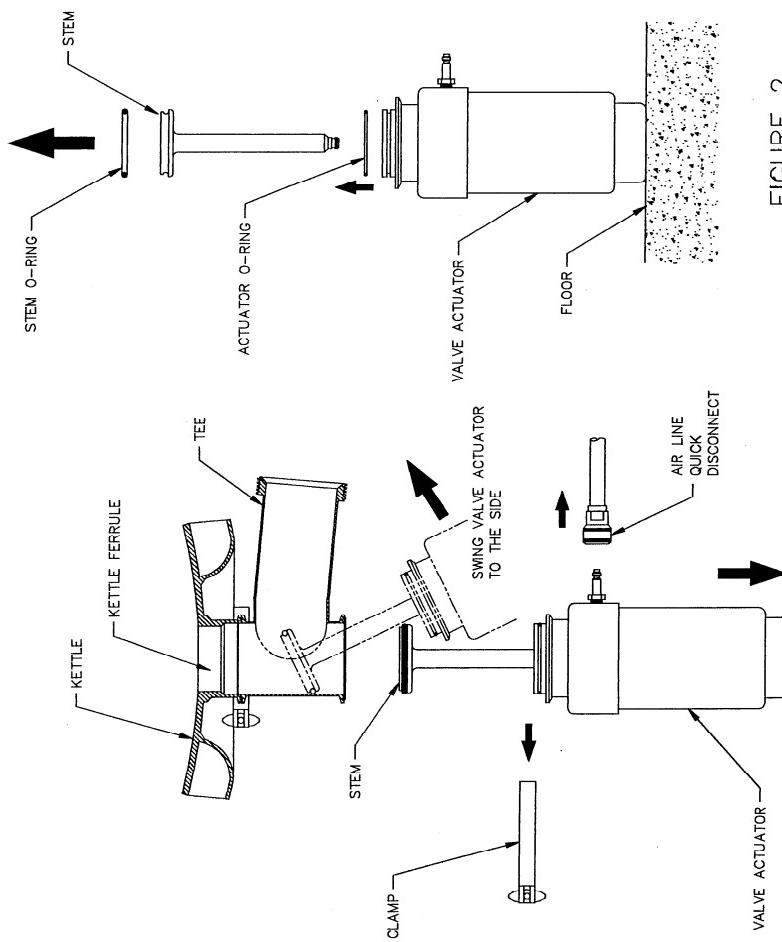


FIGURE 1

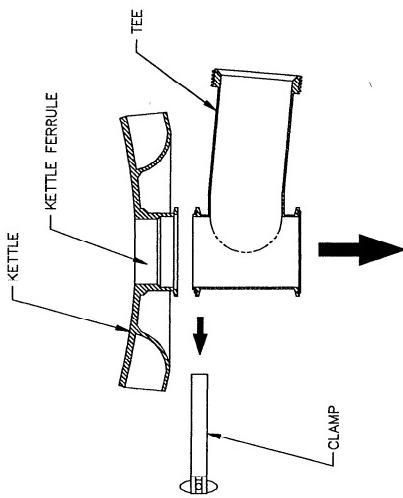


FIGURE 2

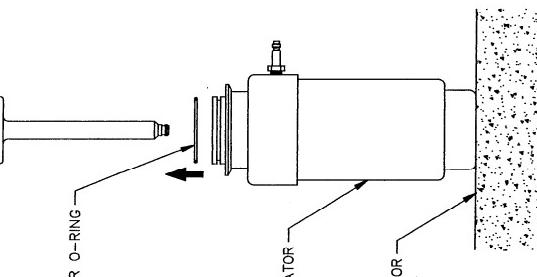


FIGURE 3

INSTRUCTIONS TO DISASSEMBLE 3" PRODUCT VALVE W/ NEW STEM		REVISIONS	DRAWN BY JAY S.	REV.	DRAWING NUMBER
A 7" CONN WAS 45° REV. DESCRIPTION 1250 REAMES RD. BALTO MD. 21220 PHONE (410) 391-9800	JES 4-27-96 BY DATE 4/29/96 SOME NONE		DATE 4-19-96 APPROVED BY 4/29/96	C	8629 SECRET 1 of 1

INSTRUCTIONS:

1. MAKE SURE CONTROL POWER IS ON.
 2. CLEAN AND GREASE STEM AND O-RINGS. USE CHESTERTON 622 OR EQUAL FOOD GRADE GREASE.
 3. TO ASSEMBLE VALVE ACTUATOR AND STEM:
 - A) PLACE VALVE ACTUATOR ON THE FLOOR AND RECONNECT THE AIR LINE.
 - B) PLACE STEM IN THE VALVE ACTUATOR AS SHOWN IN FIGURE 1.
 - C) APPLY PRESSURE TO THE TOP OF THE STEM AS SHOWN IN FIGURE 1.

CAUTION USE THE FLAT OF THE HAND AS SHOWN IN FIGURE 1. FAILURE TO FOLLOW THIS MAY RESULT IN PERSONAL INJURY.

INSTRUCTIONS (CONT'D):

- D) WHILE APPLYING PRESSURE TO THE STEM TURN THE PRODUCT VALVE SWITCH TO THE OPEN POSITION. THE STEM SHOULD LOWER.

NOTE: IF THE STEM FAILS TO LOWER MAKE SURE THE STEM IS INSERTED CORRECTLY INTO THE VALVE ACTUATOR THEN REPEAT STEPS 3B THRU 3D.

4. ATTACH THE TEE TO THE KETTLE FERRULE WITH CLAMP AS SHOWN IN FIGURE 2.

5. ATTACH THE VALVE ACTUATOR TO THE TEE WITH CLAMP AS SHOWN IN FIGURE 3.

6. TURN THE PRODUCT VALVE SWITCH TO THE CLOSED POSITION AND THE KETTLE VALVE WILL CLOSE.

SOCIAL SECURITY INJURY RESULT IN PERSONAL INJURY

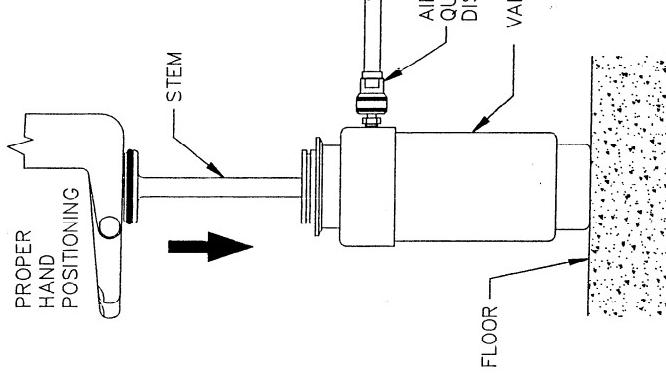


FIGURE 1

INSTRUCTIONS (CONT):

- D) WHILE APPLYING PRESSURE TO THE STEM TURN THE PRODUCT VALVE SWITCH TO THE OPEN POSITION. THE STEM SHOULD LOWER.

NOTE: IF THE STEM FAILS TO LOWER MAKE SURE THE STEM IS INSERTED CORRECTLY INTO THE VALVE ACTUATOR THEN REPEAT STEPS 3B THRU 3D.

4. ATTACH THE TEE TO THE KETTLE FERRULE WITH CLAMP AS SHOWN IN FIGURE 2.

5. ATTACH THE VALVE ACTUATOR TO THE TEE WITH CLAMP AS SHOWN IN FIGURE 3.

6. TURN THE PRODUCT VALVE SWITCH TO THE CLOSED POSITION AND THE KETTLE VALVE WILL CLOSE.

SOCIAL SECURITY INJURY RESULT IN PERSONAL INJURY

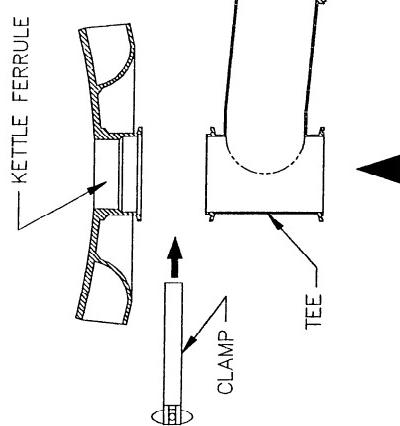


FIGURE 2

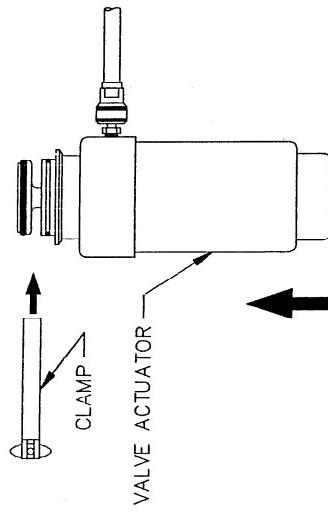
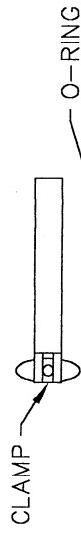
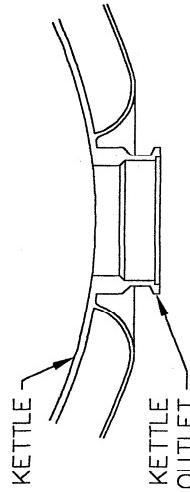


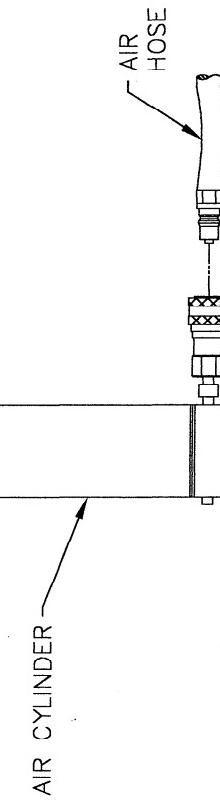
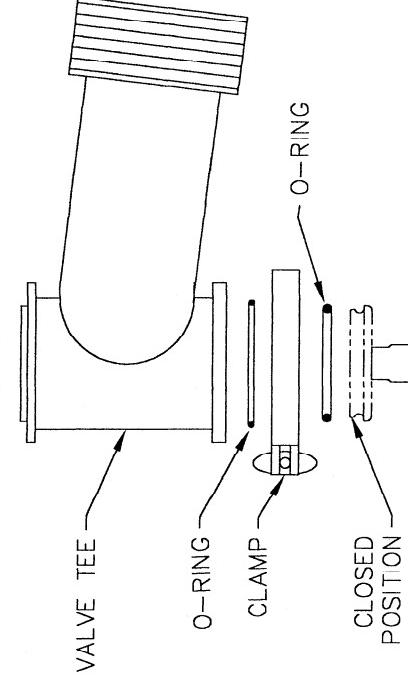
FIGURE 3

A 7 TEE CONN WAS 45°		YES	4-27-96	J. C. PARDØ & SONS INC.	CREATED BY	DRAWING NUMBER	DRAWING NUMBER
REV.	DESCRIPTION	BY	DATE	BALTO MD. 21220	APPROVED BY	4/19/96	C 8630
	REVISIONS			1250 REHAMES RD. PHONE (410) 391-3800	SIGNATURE	<i>V/C 2/8/97</i>	INITIALS
				FIG. 1	SCALE	NONE	REV.
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				FIG. 265			REV.



J.C.PARDO INSTALLATION & CLEANING
INSTRUCTION FOR PRODUCT VALVE

- 1.) OPEN PRODUCT VALVE.
- 2.) DISCONNECT AIR HOSES.
- 3.) REMOVE AIR CYLINDER.
- 4.) REMOVE VALVE TEE.
- 5.) REMOVE ALL O-RINGS.
- 6.) CLEAN AIR CYLINDER, DO NOT SUBMERGE IN WATER. WIPE CLEAN AND SANITIZE.
- 7.) CLEAN AND SANITIZE TEE AND O-RINGS.
- 8.) GREASE AND REINSTALL O-RINGS.
- 9.) REINSTALL TEE TO KETTLE OUTLET.
- 10.) REINSTALL AIR CYLINDER TO BOTTOM OF TEE.
- 11.) RECONNECT AIR HOSES.
- 12.) O.K. TO CLOSE VALVE AND CHECK FOR ALIGNMENT.



J.C.PARDO & SONS INC.	REVISIONS	BY DATE	REV. NO.
1250 REEDERS RD. PITTSBURGH, PA 15236 PHONE: (412) 261-3600			
BALTIMORE, MD 21220 PHONE: (410) 261-3600			

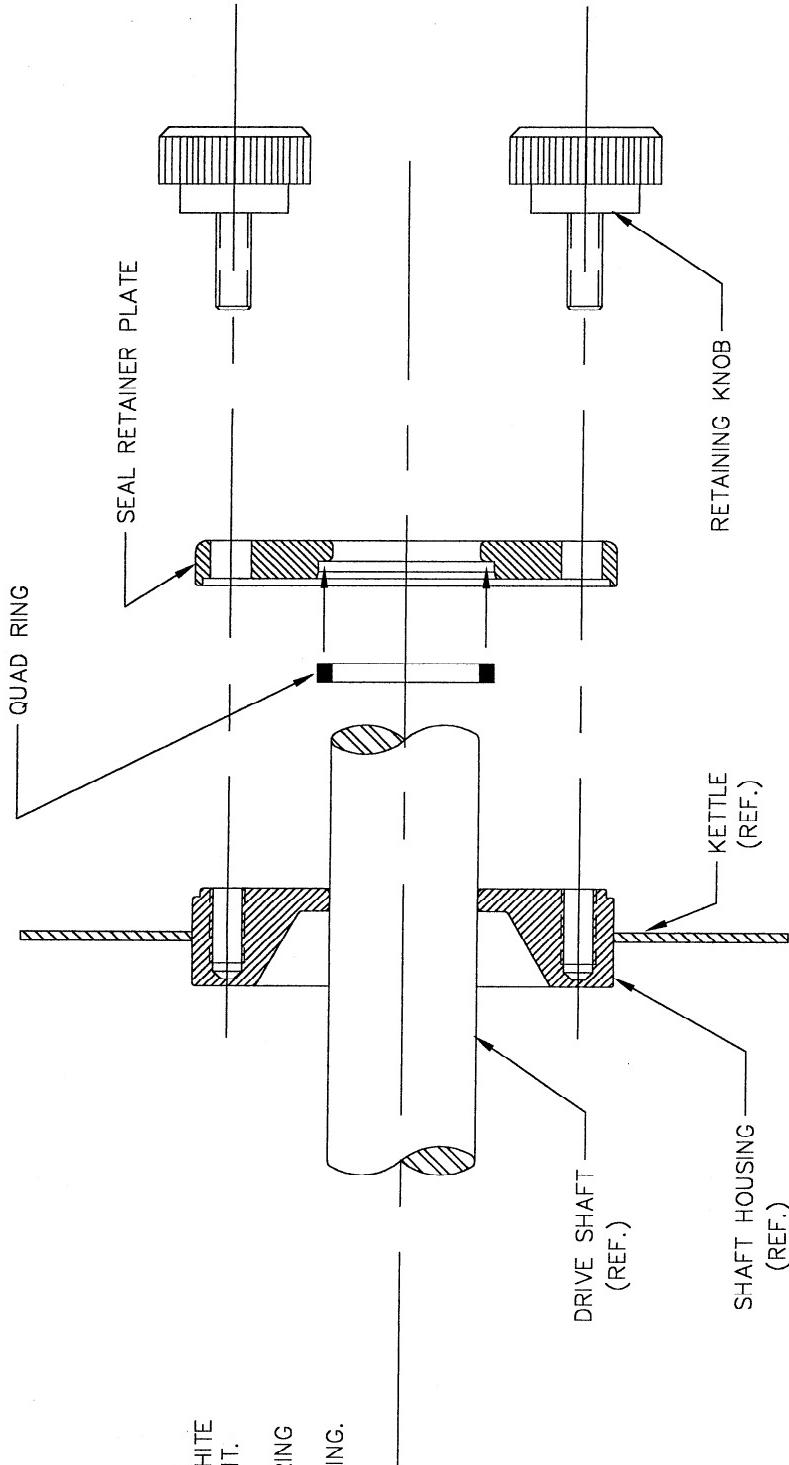
3" J.C.PARDO PRODUCT VALVE CLEANING INSTRUCTION	REVISIONS	BY DATE	REV. NO.

9027	REVISIONS	BY DATE	REV. NO.

1 of 1	REVISIONS	BY DATE	REV. NO.

DAILY CLEANING :

1. REMOVE RETAINING KNOBS.
2. SLIDE SHAFT SEAL RETAINER PLATE AWAY FROM SHAFT HOUSING.
3. SLIDE QUAD RING AWAY FROM SHAFT HOUSING.
4. CLEAN QUAD RING AND APPLY A LIGHT COAT OF 622 CHESTERTON WHITE FOOD GRADE GREASE OR EQUIVALENT.
5. SLIDE QUAD RING TOWARDS SHAFT HOUSING MAKING SURE THE QUAD RING DOES NOT TWIST.
6. SLIDE PLATE TOWARDS SHAFT HOUSING.
7. REPLACE RETAINING KNOBS. HAND TIGHTEN ONLY.



J.C.PARDO & SONS INC.

1250 REAMES RD.  BALTO. MD. 21220

DRAWN BY:

TM KAHL
SHAFT SEAL AND RETAINER PLATE
DAILY CLEANING PROCEDURE

DRAWING NUMBER:
B 8516

SCALE: NONE APPROVED BY:

DATE: 3-23-94

SHAFT SEAL AND RETAINER PLATE

DAILY CLEANING PROCEDURE

SIZE:

B

REV.

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OR INDIRECTLY IN ANY WAY BY ADDITIONAL
TO THE INTERESTS OF J. C. PARDO & SONS INC.

ASSEMBLY AND REMOVAL OF 300 GALLON HORIZONTAL AGITATOR KETTLE

CLEANING OR MAINTENANCE

1. ROTATE AGITATOR UNTIL PULL PIN IS ON THE TOP SIDE.
2. TURN POWER **OFF** TO AVOID ACCIDENTS.
3. REMOVE KETTLE COVER.
4. SECURE LIFTING STRAP TO THE CENTER OF AGITATOR SHAFT AS SHOWN ON DWG. #8680 HOLD SO IT DOES NOT DROP.
5. REMOVE PULL PIN #8, SLIDE COUPLING ALL THE WAY TOWARD SEAL TO CLEAR AGITATOR SHAFT.
6. REMOVE BOLTS #12. GENTLY PULL BACK ON BEARING BLOCK #3 BY HOLDING THE HANDLE ON TOP SIDE OF BEARING BLOCK. **DO NOT DROP**
7. WITH ONE HAND OPERATE HOIST SWITCH, USING OTHER HAND TO GUIDE AGITATOR OUT OF THE KETTLE AND SET IT ON THE AGITATOR DOLLY.

REINSTALL THE AGITATOR

1. LOWER THE AGITATOR WITH A HOIST, GENTLY SET BUSHING SIDE ON THE AGITATOR REST AND THE OTHER END ON THE DRIVE SHAFT, SIDE WITH COUPLING.
2. SLIDE COUPLING IN PLACE THEN INSERT PULL PIN.
3. GENTLY SLIDE IDLER BEARING BLOCK INTO KETTLE HUB. SECURE WITH THE (4) BOLTS, GREASE BUSHING, REMOVE STRAP, AND REPLACE KETTLE COVER.
(ASSEMBLY IS COMPLETE)

CLEANING OF A 300 GALLON HORIZONTAL AGITATOR IDLER END BEARING

HERE ARE TWO WAYS OF CLEANING A 300 GAL. HORIZ. AGI. IDLER END BEARING:

1. THE FIRST WAY IS TO FLUSH IT OUT WITH HOT WATER OR STEAM.
2. THE SECOND WAY IS TO REMOVE THE IDLER BEARING SECTIONS COMPLETELY.

TO CLEAN WITH HOT WATER OR STEAM

1. SET AGITATOR SPEED TO LOWEST SETTING THEN TURN ON AGITATOR.
(MAKE SURE KETTLE COVER IS CLOSED)
2. TURN ON VALVE TO STEAM OR HOT WATER THAT GOES TO THE CONNECTION OF AGITATOR IDLER BEARING MARKED **FLUSH CONNECTION** ON DWG. #8680. LEAVE ON FOR 5 TO 10 MINUTES THEN TURN OFF HOT WATER OR STEAM VALVE.
3. STOP AGITATOR, OPEN KETTLE COVER, AND RINSE INSIDE OF KETTLE WITH HOT WATER HOSE.
4. USING A GREASE GUN, GREASE IDLER BEARING WITH A CHESTERTON FOOD GREASE 622 OR EQUAL.
5. CLEAN DRIVE SIDE SHAFT SEAL. FOLLOW INSTRUCTIONS ON DWG. #8516.

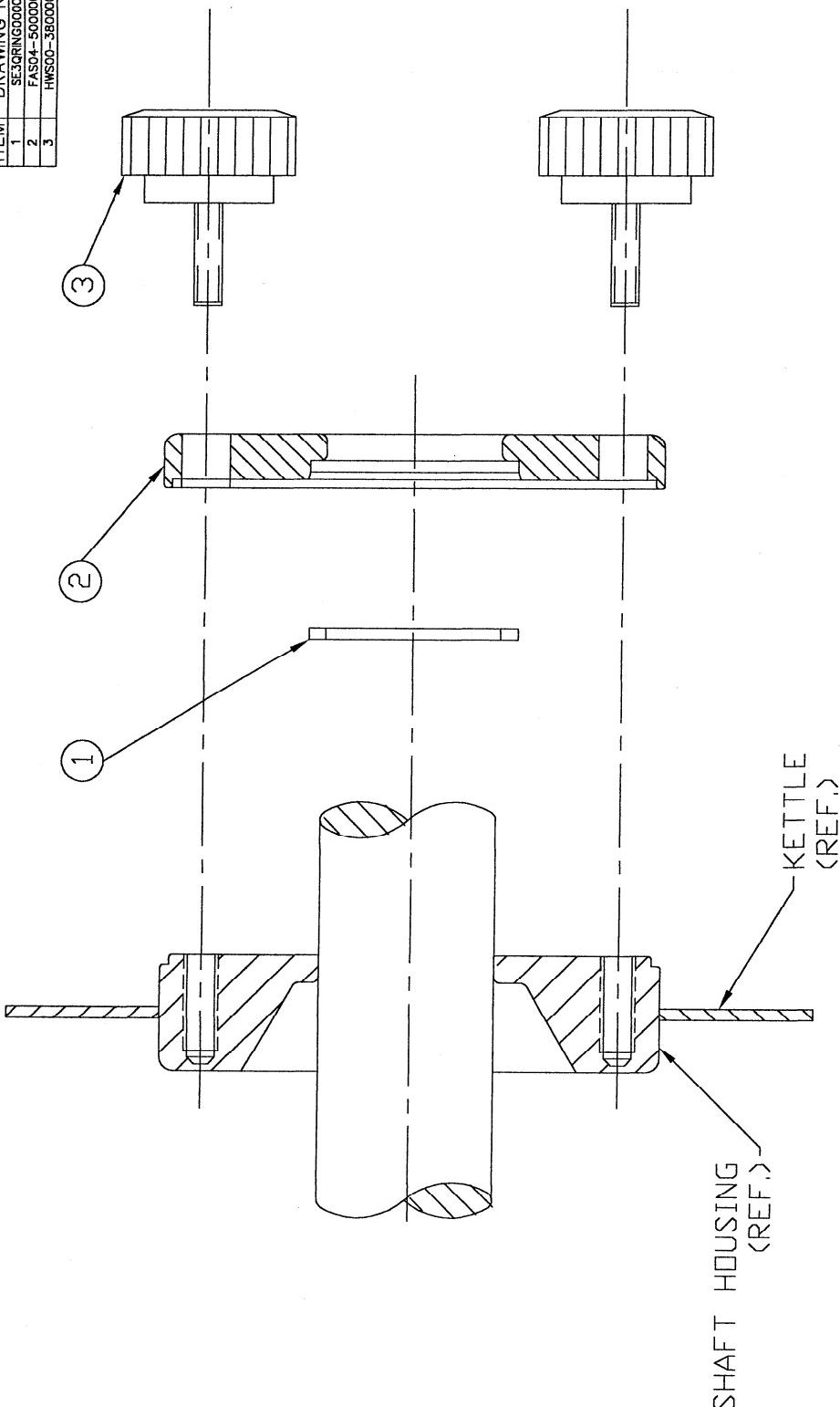
TO CLEAN BY REMOVING THE BEARING SECTIONS

1. TURN POWER OFF TO THE KETTLE.
2. REMOVE BOLTS #13.
3. REMOVE BEARING END CAP, PART #1.
4. REMOVE BOLTS #12.
5. REMOVE BEARING BLOCK, PART #3 (**DO NOT DROP**). THE AGITATOR SHAFT WILL REST ON THE AGITATOR REST INSIDE THE KETTLE, AS ALL OF THIS IS SHOWN ON DWG. #8680.
6. REMOVE O-RING #2 AND #4 FROM PART #1 AND 3.
7. CLEAN THE END OF THE AGITATOR SHAFT AND ALL OTHER PARTS OF SEAL HOUSING WITH ANY ACCEPTABLE CLEANING SOLUTION, USING A CLOTH OR BRUSH.
8. APPLY A THIN COAT OF CHESTERTON 622 FOOD GREASE OR EQUAL TO THE OUTSIDE OF THE AGITATOR SLEEVE AND INSIDE THE BEARING HOUSING.
9. APPLY A THIN COAT OF GREASE ON O-RING #4 AND SLIDE BACK ONTO PART #3.

10. GENTLY SLIDE BEARING BLOCK BACK INTO KETTLE HUB TO START BOLTS.
START BOLTS AND TIGHTEN SUFFICIENTLY TO HOLD THE AGITATOR BEARING
BLOCK FROM MOVING AND LEAKING.
11. GREASE O-RING #1 THEN INSERT ONTO END CAP, PART #1.
12. INSERT CAP #1 INTO BEARING BLOCK AND BOLT IN PLACE SO IT DOESN'T LEAK.
13. FOLLOW DWG. #8516, AND CLEAN DRIVE SIDE SHAFT SEAL.

DRAWINGS FOR REPLACEMENT PARTS

ITEM	DRAWING NO.	DESCRIPTION
1	SE30RNG0005	QUAD RING
2	FAS04-5000001	SEAL RETAINER PLATE
3	HWS00-3500003	RETAINING KNOBS



A	REDRAWN IN ACAD	SME	8-27-99
REV	DESCRIPTION	BY	DATE

CHECKED BY	APPROVED BY
------------	-------------

J.C.PARDO & SONS INC.

DRAWN BY: SME	UNLESS NOTED OTHERWISE
DATE 8-27-99	TOLERANCES ARE:
SCALE NONE	XX = \pm XXX
	XXX = \pm XXXX
	FRACT. = \pm XXXX
	ANGLE = \pm XXXX
	FINISH = 64 RMS

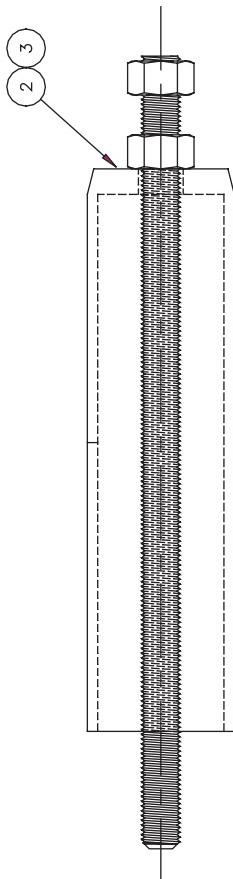
JOB #: _____ QTY: _____

DRAWING NUMBER: 11023
SIZE: B
SHEET: 1
REV: A
1 OF 1

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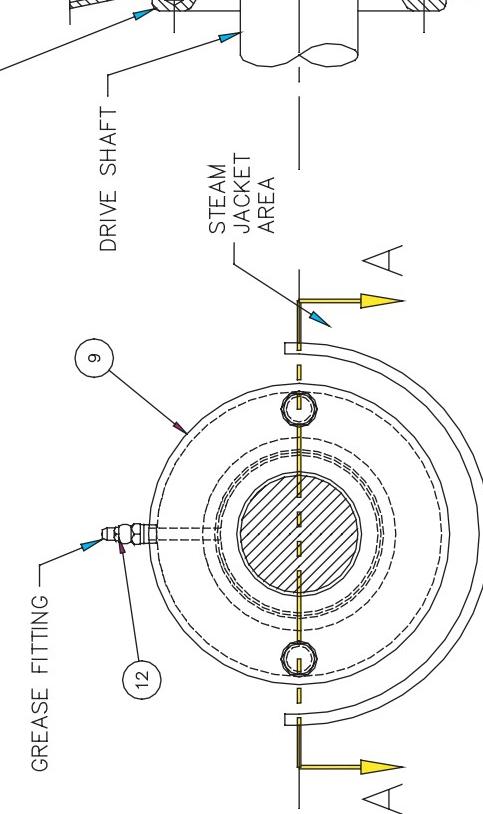
REPLACEMENT PARTS LIST

ITEM	PART NO.	DESCRIPTION
*	1 1H800-00000007	HAK-100-200 SEALS & COVER PLATE ASSY
2	IFS02-0000023	HAK-100 DRIVE SHAFT PULLER
3	IFS02-5800010	HAK-150-200 DRIVE SHAFT PULLER
4	IFF02-0000001	SEALING RING
5	1FD02-0000001	SILICONE FILLED SEAL
6	IFS02-0000022	SST SPACING RING
7	SESEASL00001	SEAL
8	SETORING00007	O-RING
9	IFS05-0000005	COVER PLATE
10	HWS00-3800011	SST LOCK WASHER
11	HWS00-3800016	SST BOLT
12	HWS00-1300001	SST GREASE FITTING
13	MSFLUIDS00001	TUBE OF FOOD GRADE GREASE(NOT SHOWN)
14	1H800-0000005	GREASE GUN (NOT SHOWN)



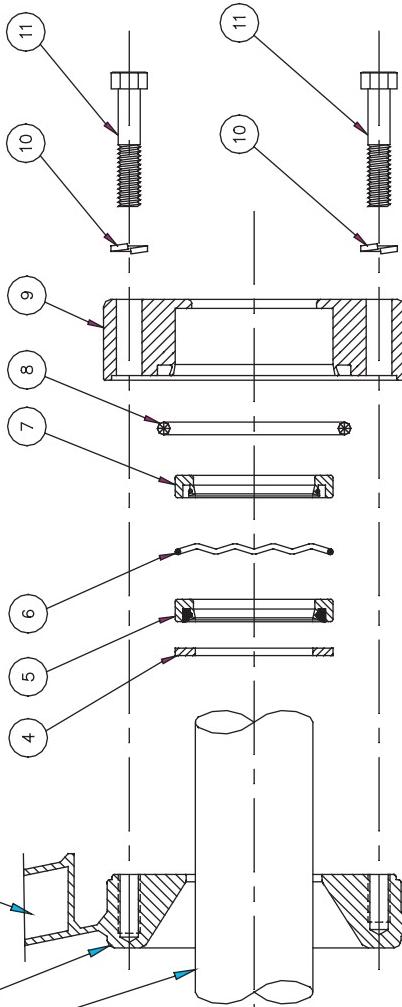
DRIVE SHAFT PULLER

STEAM JACKET AREA
KETTLE HUB



END VIEW HUB

* ITEM #1 CONSISTS OF ITEMS #4-13



EXPLODED SECTION A-A

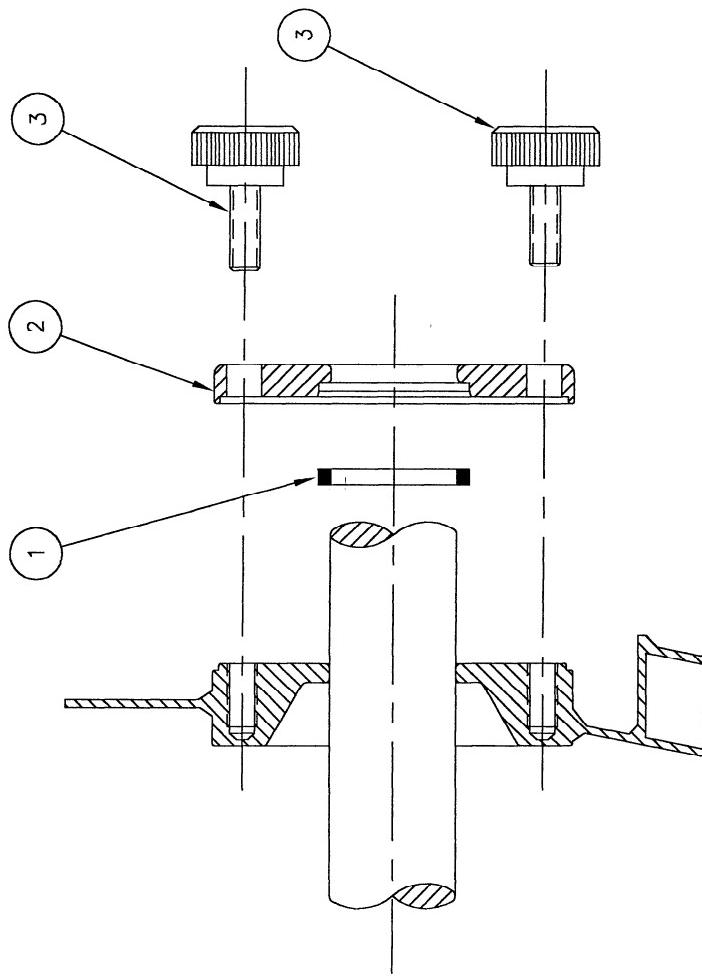
REV.	DESCRIPTION	BY	DATE
REVISIONS			

J.C.PARDO & SONS INC.
1250 REAMES RD.  BALTO MD. 21220
PHONE (410) 391-3600 FAX (410) 391-9042

B	DEL. HEX PLUG & PORT	DRAWN BY: JES	SHAFT SEALS & COVER PLATE	SIZE:
A	ADDED HEX PLUG	DATE: 8/29/02	HAK-100-200 REPL. PARTS	11676
REV. DESCRIPTION BY DATE				This drawing and all information contained therein is the property of J.C.Pardo & Sons Inc., Baltimore, MD. The drawing and all information is confidential and must not be made public or copied. It is loaned subject to return upon demand and is not to be used directly or indirectly in any way detrimental to J.C.Pardo & Sons.
REV.	SCALE:NONE	BY DATE	REV.	11676
REV.	BY DATE	REV.	1	1 of 1

REPLACEMENT PARTS LIST

ITEM	PART NO.	DESCRIPTION
1	SE3QRING00001	QUAD RING
2	1FS05-0000002	COVER PLATE
3	1HS00-3800001	RETANING KNOB



J.C.PARDO & SONS INC.

1250 REAMES RD. 
BALTO MD. 21220
PHONE (410) 391-3600 FAX (410) 391-9042

CHECKED BY:
JES

SHAFT SEAL AND RETAINER PLATE
100,150 & 200 CAL REPL. PARTS

SIZE:
B

DRAWING NUMBER:
8518

APPROVED BY:
NONE

DATE: 2-23-94

SCALE: NONE

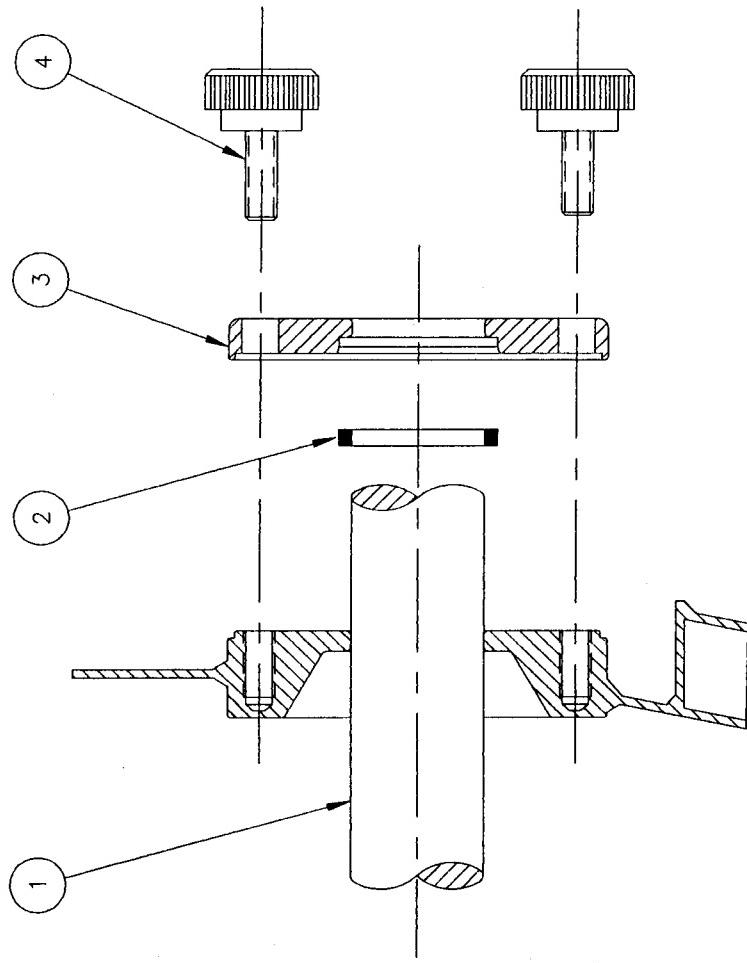
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REV.
A

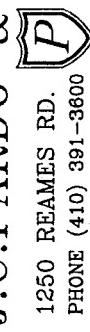
SHEET
1 of 1

REPLACEMENT PARTS LIST

ITEM	PART NO.	DESCRIPTION
1	1FS02-7500005	DRIVE SHAFT
2	SE3QRING00002	QUAD RING
3	1FS05-7500001	COVER PLATE
4	HWS00-3800003	RETAINING KNOB



J.C.PARDO & SONS INC.

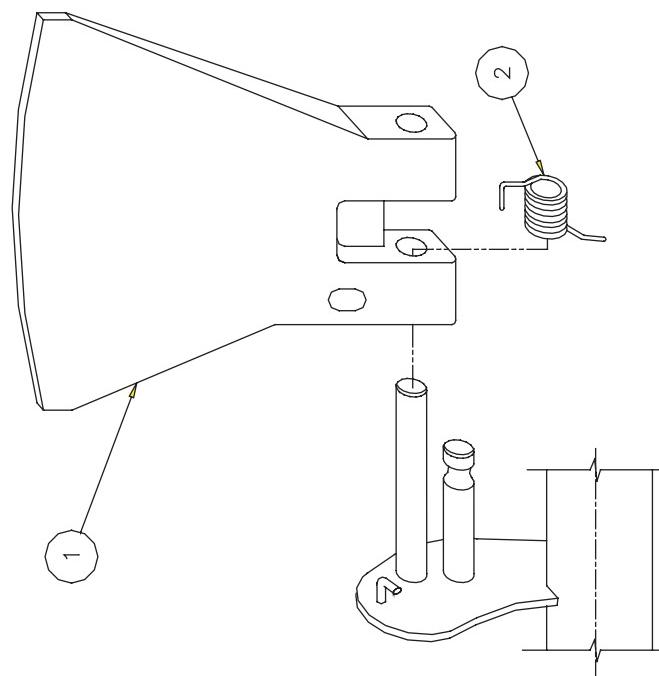


1250 REAMES RD.
BALTO MD. 21220
PHONE (410) 391-3600
FAX (410) 391-9042

CHECKED BY:	DRAWN BY: JAY S.	SHAFT SEAL AND RETAINER PLATE	SIZE: B	DRAWING NUMBER: 11185
APPROVED BY:	DATE: 4-3-96	300 GAL REPLACEMENT PARTS		
	SCALE: NONE			
	REV. 164/8/96			SHEET 1 Of 1

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REPLACEMENT PARTS LIST		
ITEM	PART NO.	DESCRIPTION
1	MSW00-75600001	SCRAPER BLADE
2	MSSPRING00002	SCRAPER BLADE SPRING
3	TOSPRING00001	SPRING REMOVAL TOOL



D	#1 WAS MSW00-8800001	JES	4-24-98
C	#1 WAS 1PW00-7500001	JES	1-6-98
B	REDRAWN FROM PAPER	LY	4/25/95
A	ITEM #1 WAS PART NO. MSFBLADE00001 WAS TEFLON NOW UHMP.	LY	3/22/95
REV.	DESCRIPTION	BY	DATE

REVISIONS

SCRAPER BLADE ASSEMBLY REPLACEMENT PARTS		SIZED	DRAWING NUMBER
DATE 4/25/95	APPROVED BY SCALE NONE	B	8412

J.C.PARDO & SONS INC.
1250 REAMES RD. BALTO MD. 21220
PHONE (410) 391-3600 FAX (410) 391-9042



RD.

BALTO

MD.

21220

PHONE (410)

391-3600

FAX (410)

391-9042

1 OF 1

4/25/95

3/22/95

4-24-98

1-6-98

8412

REVISIONS

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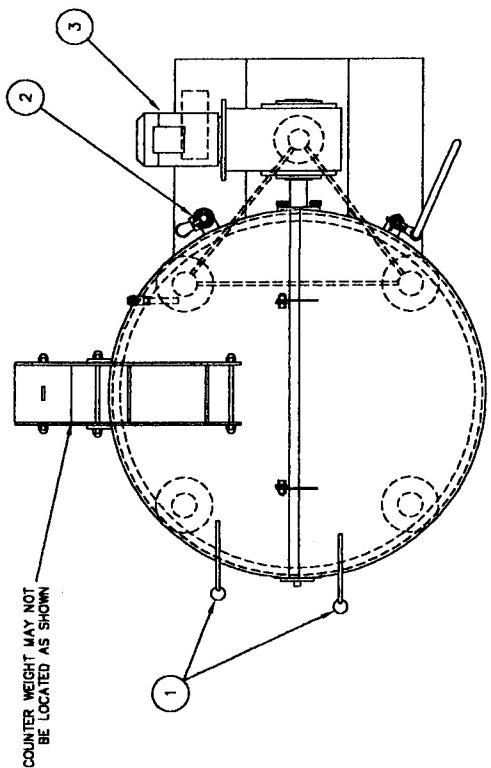
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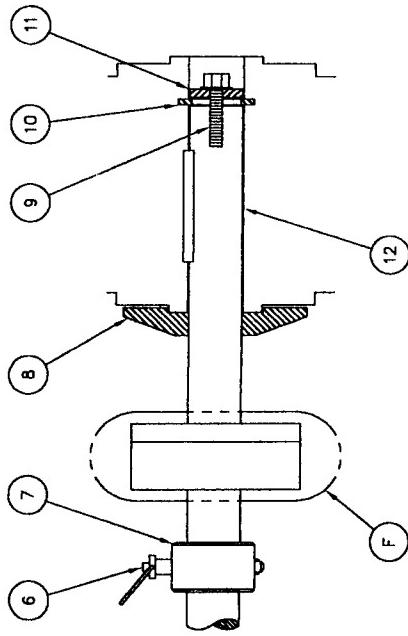
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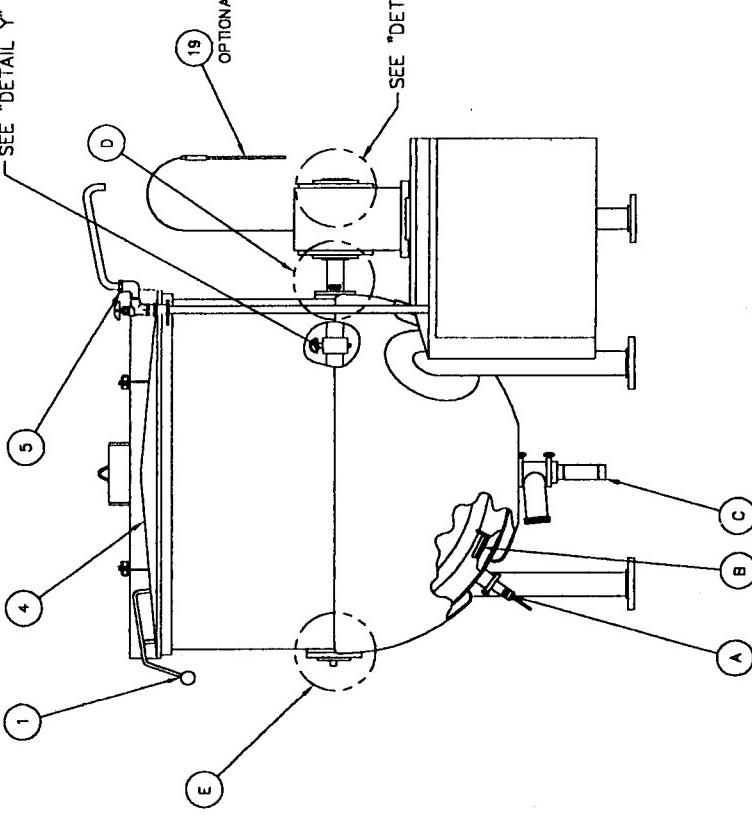
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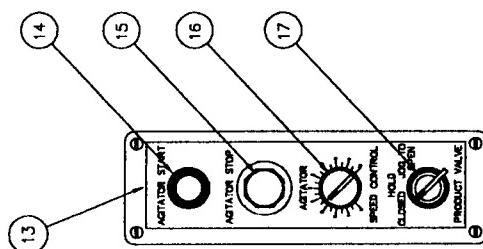
COUNTER WEIGHT MAY NOT
BE LOCATED AS SHOWN



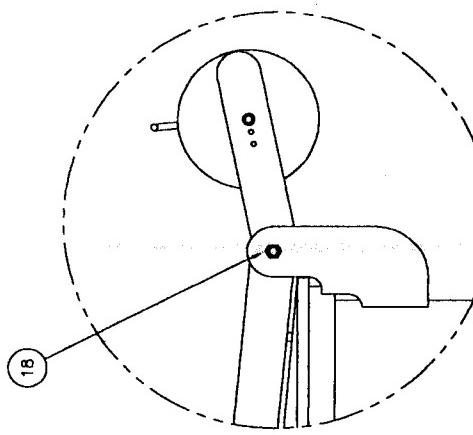
DETAILS



הבר מתייאב



SFF "DETAILED
OPTIONAL ITEM



COUNTER WEIGHT DETAIL

CONTROL STATION DETAIL

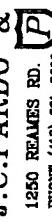
REPLACEMENT PARTS LIST

ITEM		PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
1	MSP02-00000001	RED BALL		14	2EP01-25A0012	GREEN LIGHTED PUSH BUTTON
2	VAB01-25000001	100 PSI SAFETY VALVE		-	ELV00-1200001	REPLACEMENT BULB FOR ITEM #15
3	DUH05-00000009	5 HP DRIVE UNIT 208 VOLTS		15	2EP01-25A0016	RED MUSHROOM PUSH BUTTON
-	DU905-00000005	ELECTRIC MOTOR 208 VOLTS		16	ELP01-2500002	SPEED CONTROL DIAL
-	DJ902-75000003	GEAR BOX		17	2EP01-25A0022	3 POSITION TURN SWITCH
4	1V300GAL00004	SPLIT COVER W/COUNTER WEIGHT MNTS		18	BCZ00-75000002	COVER BUSHING
5	PBB00-7500018	FILL FAUCET		19	TSENSOR000012	TOP TEMPERATURE SENSOR
6	MSS00-50000002	QUICK RELEASE PIN				DRAWINGS LIST
7	1FS03-50000001	SHAFT COUPLING				
8	1FW05-50000003	WATER SEAL DEFLECTOR				
9	HWS02-75000001	RETAINING BOLT		A	C-11039	TEMPERATURE SENSOR ASSEMBLY
10	HWS02-75000002	RETAINING WASHER		B	B-8412	SCRAPER BLADE ASSEMBLY
11	HWS02-75000003	RETAINING SNAP RING		C	C-11549	PRODUCT OUTLET VALVE
12	1FS02-75000005	DRIVE SHAFT		D	B-11185	SHAFT SEAL ASSEMBLY
13	NPYELLOW00258	NAMEPLATE		E	C-11221	IDLER BEARING & SEAL ASSEMBLY

REPLACEMENT PARTS LIST

ITEM		PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
14	2EP01-25A0012	GREEN LIGHTED PUSH BUTTON		-	ELV00-1200001	REPLACEMENT BULB FOR ITEM #15
15	2EP01-25A0016	RED MUSHROOM PUSH BUTTON		-	ELP01-2500002	SPEED CONTROL DIAL
16	ELP01-2500002	SPEED CONTROL DIAL		17	2EP01-25A0022	3 POSITION TURN SWITCH
18	BCZ00-75000002	COVER BUSHING		19	TSENSOR000012	TOP TEMPERATURE SENSOR

J.C.PARDO & SONS INC.



REVISIONS

REV:

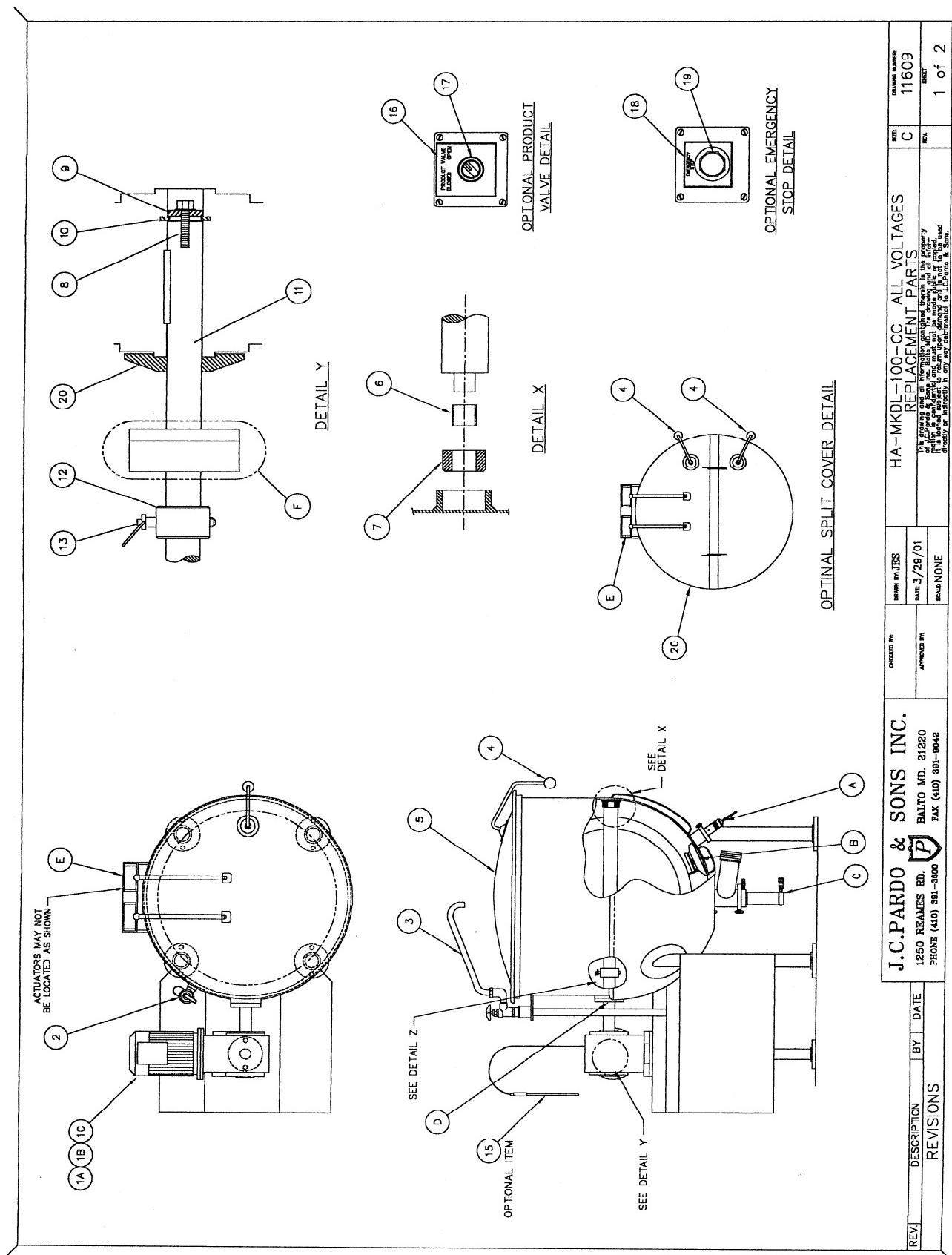
DESCRIPTION

BY

DATE

HA-MKDL-300-CC	HA-MKDL-300-CC
REPLACEMENT PARTS	REPLACEMENT PARTS
PRINTED ON 08/01/2000	PRINTED ON 08/01/2000
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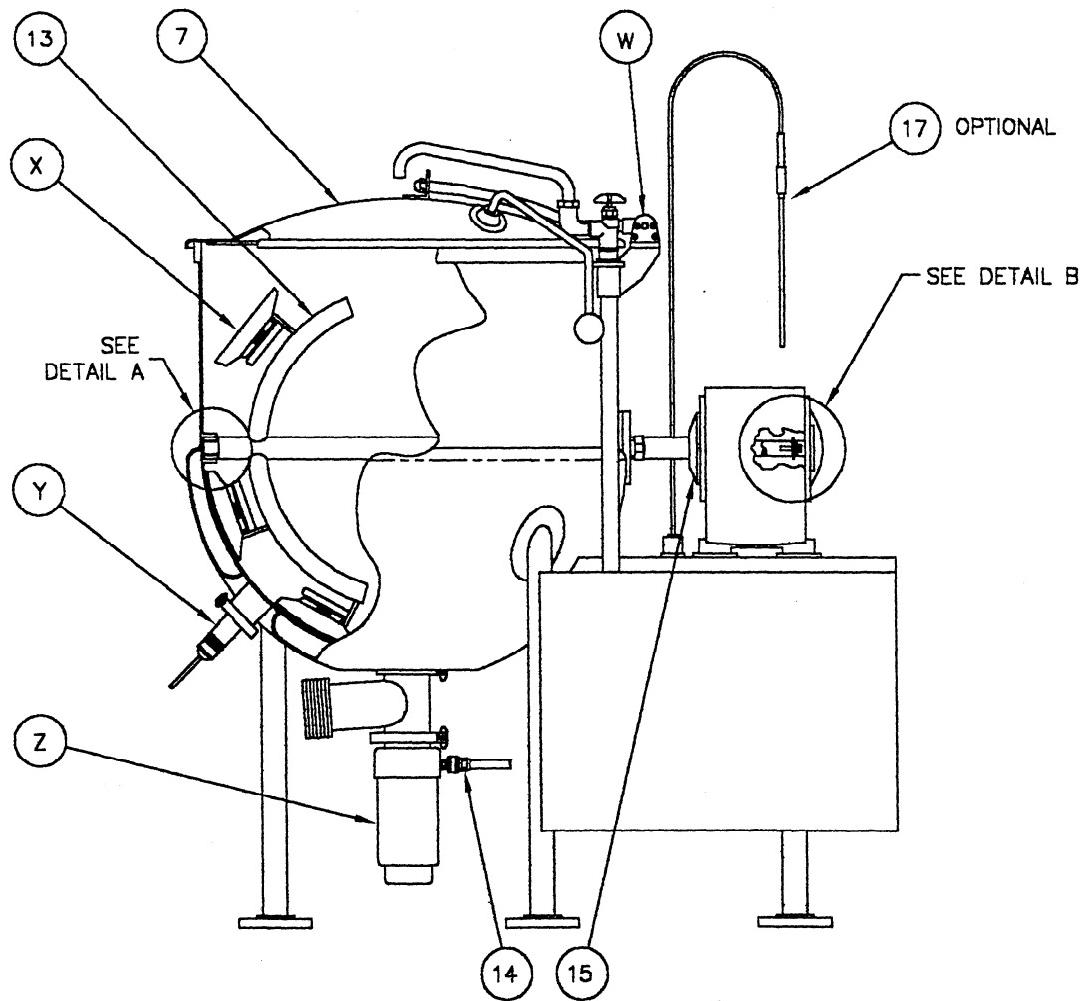
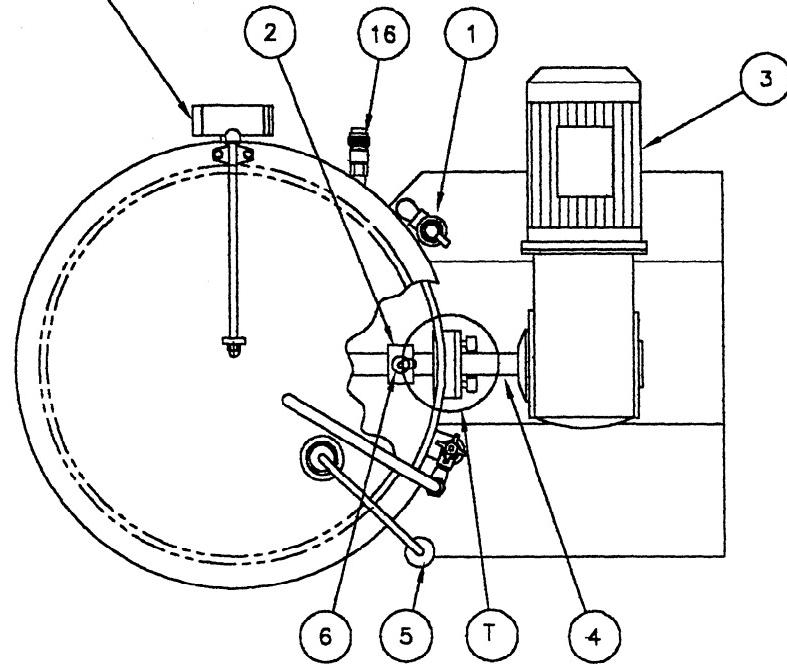
REPLACEMENT PARTS LIST		
ITEM	PART NO.	DESCRIPTION
1A	DUH03-0000007	3 HP DRIVE UNIT 208 VOLTS
-	DU903-0000010	ELECTRIC MOTOR 208 VOLTS
-	DU902-0000027	GEAR BOX
1B	DUH03-0000015	3 HP DRIVE UNIT 380 VOLTS
-	DU903-0000009	ELECTRIC MOTOR 380 VOLTS
-	DU902-0000029	GEAR BOX
1C	DUH03-0000011	3 HP DRIVE UNIT 230/460 VOLTS
-	DU903-0000011	ELECTRIC MOTOR 230/460 VOLTS
-	DU902-0000028	GEAR BOX
2	VAB01-0000007	100 PSI SAFETY VALVE
3	PBB00-7500018	FILL FAUCET
4	MSP02-0000001	RED BALL
5	1FS18-GA00002	COVER
6	1FS01-5000004	IDLER END SLEEVE
7	1FK02-2500002	IDLER BUSHING
8	HWS02-0000002	RETAINING BOLT
9	HWS02-0000003	RETAINING WASHER
10	HWS02-0000004	RETAINING SNAP RING

DRAWINGS LIST		
ITEM	DRAWING NO.	DESCRIPTION
A	C-11039	TEMPERATURE SENSOR ASSEMBLY
B	B-8412	SCRAPER BLADE ASSEMBLY
C	C-11549	PRODUCT OUTLET VALVE
D	B-8518	SHAFT SEAL ASSEMBLY
E	B-8539	HINGE ACTUATOR ASSEMBLY

REV.	DESCRIPTION	BY	DATE	DRAWN BY:	APPROVED BY:	REV.:	DRAWING NUMBER:
	REVISIONS			J.C.PARDO & SONS INC.	BAITO MD. 21220 PHONE (410) 381-3600	3/29/01 None	HA-MKDL-100-CC ALL VOLTAGES REPLACEMENT PARTS The drawings contained herein are the property of J.C. Pardo & Sons Inc. They are to be used only for the manufacture of parts for the above mentioned product. Any other use is unauthorized and illegal.

2 of 2

ACTUATOR LOCATION
MAY NOT BE AS SHOWN



J.C.PARDO & SONS INC.

REV.	DESCRIPTION	BY	DATE
REVISIONS			

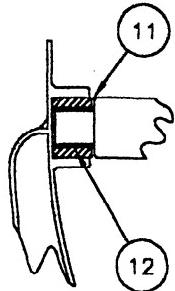
1250 REAMES RD.
PHONE (410) 391-3600



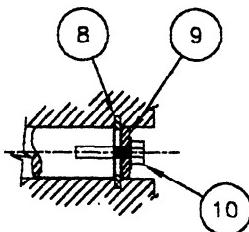
BALTO MD. 21220
FAX (410) 391-9042

CHE

APP



DETAIL A



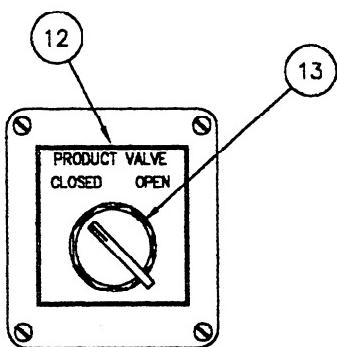
DETAIL B

REPLACEMENT PARTS LIST

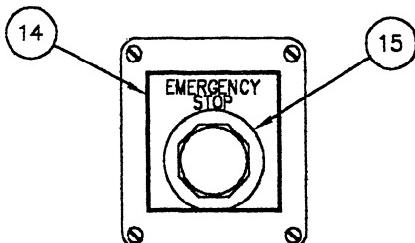
ITEM	PART NO.	DESCRIPTION
1	VAB00-7500005	SAFETY VALVE
2	FAS02-5000003	SHAFT COUPLING
3	DUH02-0000005	208 VOLT DRIVE UNIT
-	DU902-0000003	208 VOLT ELECTRIC MOTOR
-	DU901-5000004	GEARBOX
4	FAS01-5000004	DRIVE SHAFT
5	MSP02-0000001	RED BALL
6	MSS00-3700003	QUICK RELEASE PIN
7	1FS18-GA00003	KETTLE COVER
8	HWS01-5000003	RETAINING RING
9	HWS01-5000001	RETAINING WASHER
10	HWS01-5000002	RETAINING BOLT
11	1FK02-0000004	IDLER BUSHING
12	1FS01-2500003	IDLER END SLEEVE
13	1G050GAL00005	AGITATOR
14	ARB00-2500017	AIR QUICK DISCONNECT
15	1FW03-5000001	MOTOR SEAL WATER DEFLECTOR
16	ABR00-5000001	AIR QUICK DISCONNECT
17	TSSENSOR00012	TOP SENSOR (OPTIONAL)

DRAWINGS FOR REPLACEMENT PARTS

ITEM	DRAWING NO.	DESCRIPTION
T	B-11023	SHAFT SEAL & RETAINER PLATE
W	B-8539	HINGE ACTUATOR ASSEMBLY
X	B-8412 REV. B	SCRAPER BLADE ASSEMBLY
Y	C-11039 REV. A	TEMPERATURE SENSOR
Z	C-11200	PRODUCT OUTLET VALVE

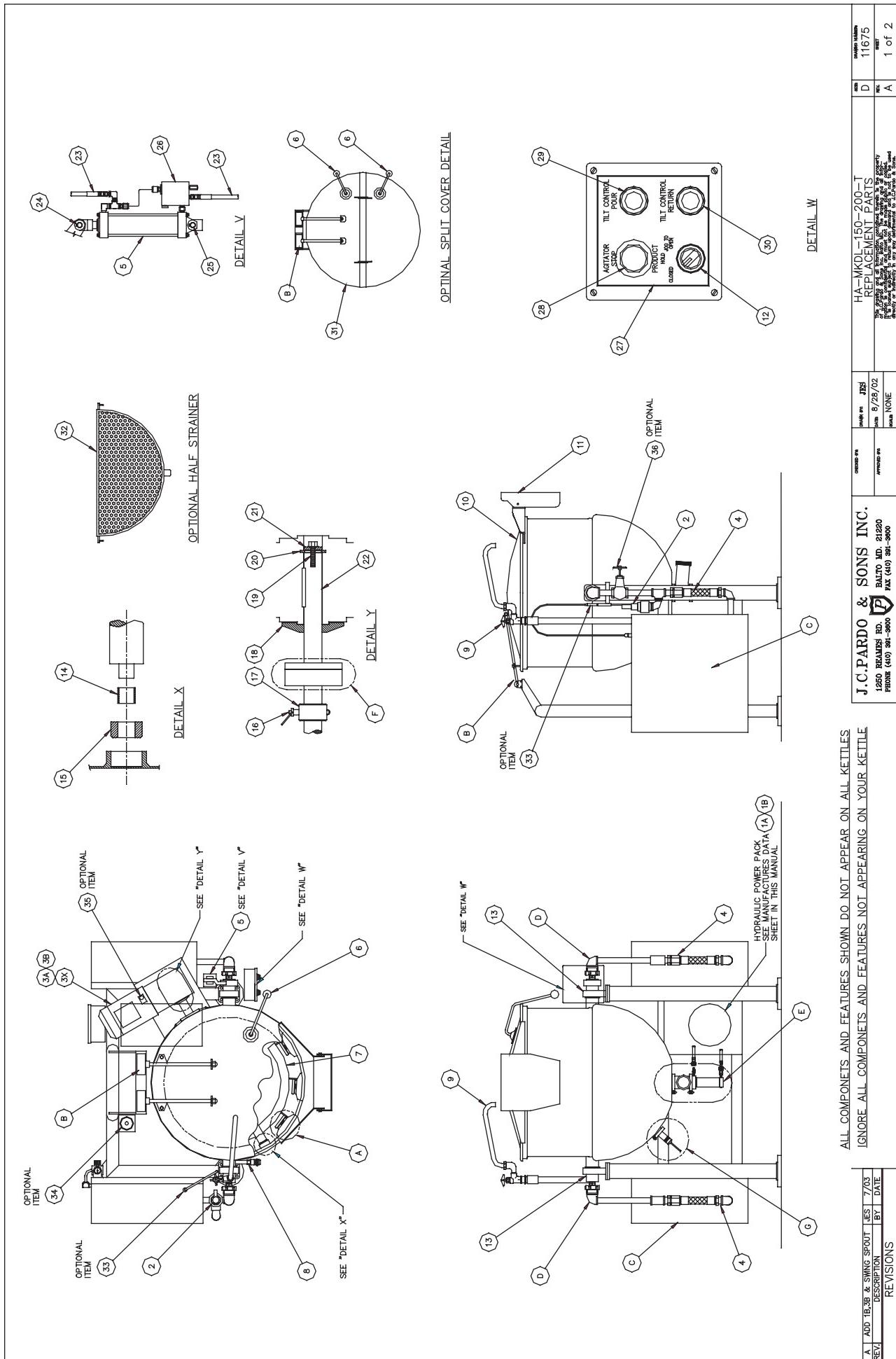


OPTIONAL
PRODUCT VALVE
SWITCH DETAIL



OPTIONAL
E-STOP DETAIL

CHECKED BY:	DRAWN BY: JAY S.	HA-MKDL-60-CC 208V REPLACEMENT PARTS	SIZE:	DRAWING NUMBER:
PROVED BY:	DATE: 2-4-00		C	11522
SCALE: NONE	This drawing and all information contained therein is the property of J.C.Pardo & Sons Inc. Belts MD. This drawing and all information is confidential and must not be made public or copied. It is loaned subject to return upon demand and is not to be used directly or indirectly in any way detrimental to J.C.Pardo & Sons.			



ALL COMPONENTS AND FEATURES SHOWN DO NOT APPEAR ON ALL KETTLES
 IGNORE ALL COMPONENTS AND FEATURES NOT APPEARING ON YOUR KETTLE

REPLACEMENT PARTS LIST

ITEM	PART NO.	DESCRIPTION
1A	HY800-0000014	HYDRAULIC POWER PACK 208/230/460 V
-	HY8VA-0000032	REPLACEMENT SOLENOID FOR ITEM #1A
-	SP988-8800034	REPLACEMENT COIL FOR ITEM #1A
1B	HY800-0000016	HYDRAULIC POWER PACK 380 V
-	HY8VA-0000032	REPLACEMENT SOLENOID FOR ITEM #1B
-	SP988-8800034	REPLACEMENT COIL FOR ITEM #1B
2	VAB01-2500001	SAFETY VALVE, 100 PSI
3	SEE DRIVE UNIT LIST	
4	PBS01-2500031	STAINLESS STEEL FLEX HOSE
5	HYS02-5000002	HYDRAULIC TILT CYLINDER
6	NSP02-0000001	RED BALL
7	1G200GAL00005	AGITATOR
8	ARB00-5000001	AIR QUICK DISCONNECT
9	PBB00-7500018	FILL FAUCET
-	PBB00-7500021	REPLACEMENT SWING SPOUT FOR ITEM #9
10	---	KETTLE COVER
-	1FS18-GA00005	150-GAL KETTLE COVER
-	1FS18-GA00001	200-GAL KETTLE COVER
11	1FS01-0000002	FLOW DIVERTER
12	2EP01-25A0022	3 POSITION SWITCH
13	BGZ03-5000001	PILLOW BLOCK
14	1FS01-7500030	IDLER SLEEVE
15	1FK02-5000002	IDLER BEARING
16	MSS00-5000001	QUICK RELEASE PIN
17	1FS02-7500012	SHAFT COUPLING
18	1FW05-5000002	MOTOR SEAL WATER DEFLECTOR
19	HWS02-3800002	RETAINING BOLT
20	HWS02-3800003	RETAINING SNAP RING
21	HWS02-3800001	RETAINING WASHER
22	1FS02-3800006	DRIVE SHAFT
23	1YD00-3700001	3/8" HYDRAULIC HOSE ASSY.*
24	HWS01-0000003	TOP PIN
25	HWS00-7500013	BOTTOM PIN
26	HY8VA-0000007	OVER CENTER VALVE
27	NPYELLOW00216	FUNCTION TAG
28	2EP01-25A0014	RED MUSHROOM PUSH BUTTON
29	2EP01-25A0001	YELLOW PUSH BUTTON

REPLACEMENT PARTS LIST

ITEM	PART NO.	DESCRIPTION
30	2EP01-25A0002	BLUE PUSH BUTTON
31	---	2 PIECE SPLIT COVER (OPTIONAL)
-	1V150GAL00001	150 GAL SPLIT COVER
-	1V200GAL00003	200 GAL SPLIT COVER (OPTIONAL)
32	---	HALF SCREEN (OPTIONAL)
-	2BSCREEN00017	150 GAL HALF SCREEN
-	2BSCREEN00016	200 GAL HALF SCREEN
33	TSENSENR000012	TOP TEMP. PROBE (OPTIONAL)
34	ELV01-15000018	STROBE LIGHT (OPTIONAL)
35	ELY00-00000014	MOTOR KILL SWITCH (OPTIONAL)
36	PBB01-2500023	MANUAL GLOVE VALVE (OPTIONAL)

DRAWING LIST

ITEM	DRAWING NO.	DESCRIPTION
A	B-8412	SCRAPER BLADE
B	B-8415	LID ACTUATOR
C	C-11576	PLUMBING
D	C-11079	BARCO JOINT
E	D-11642	PRODUCT VALVE
F	B-11676	SHAFT SEAL
G	C-11077	TEMPERATURE SENSOR

DRIVE UNIT LIST

ITEM	PART NO.	DESCRIPTION
-	---	150 GAL. DRIVE UNIT BY VOLTAGE
3A	DUH03-00000019	DRIVE UNIT. 3 HP 208V
-	DU903-00000013	3 HP ELECTRIC MOTOR, 208V
-	DU902-3800017	GEAR BOX
3B	DUH03-00000021	DRIVE UNIT, 3 HP 380V
-	DU903-00000034	3 HP ELECTRIC MOTOR, 380V
-	DU902-3800018	GEAR BOX
-	---	200 GAL. DRIVE UNIT BY VOLTAGE
3X	DUH05-0000015	DRIVE UNIT, 5 HP 208V
-	DU905-00000005	5 HP ELECTRIC MOTOR, 208V
-	DU902-3800013	GEAR BOX

MOTOR HP FOR THIS JOB IS

: 3 HP.

VOLTAGE FOR THIS JOB IS

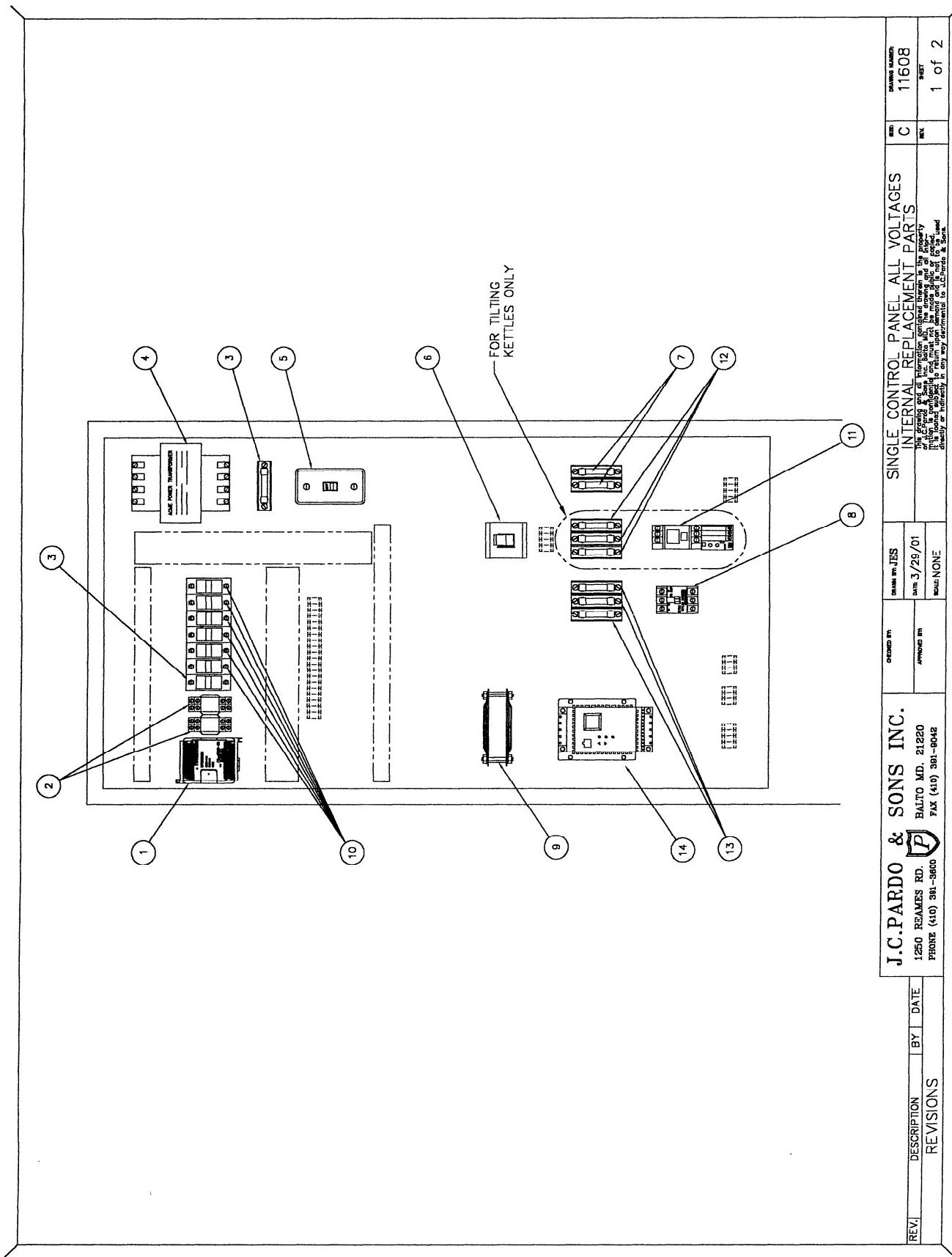
: 380 V-3 PH- 50 Hz.

REV.	ADD 1B,JB & SWING SPOUT	REV. 1ES	DATE 7/3
	REVISIONS		

HA-MKD1-150-200-T		REPLACEMENT PARTS	
BAITO MD. 21220	PHONE (410) 384-3800	8/28/02	D 11675
		8/28/02	REV. A
		8/28/02	DATE 7/3

* CUSTOMER TO SPECIFY HOSE ASSEMBLY LENGTH.





J.C.PARDO & SONS INC.		CHIEF ENGR	DRAWN BY	REV. C	PRINTING NUMBER 11608
P BALTO MD. 21220 1250 REAMES RD. PHONE (410) 381-3850 FAX (410) 381-8042		APPROVED BY	DATE Mar. 3/28/01	INITIALS None	REMARKS The drawings, prints, or other data contained herein are the property of J.C. Pardo & Sons Inc. They are to be held in confidence and must not be copied or distributed outside the company without written permission of the company. It is understood that the drawings, prints, or other data contained herein are to remain the property of J.C. Pardo & Sons Inc. If it is desired to have a copy of any drawing, print, or other data, it must be obtained from the company.
REV.	DESCRIPTION	BY	DATE		
	REVISIONS				

1 of 2

UNIVERSAL REPLACEMENT PARTS	
ITEM	PART NO.
1	ELB00-0000046
2	ELPSW-0000002
-	ELPSW-0000003
3	ELV02-5000001
4	---
-	ELV05-0000003
-	ELV05-0000004
5	ELPSW-0000007
6	ELPSW-0000001
7	ELV06-0000008
8	ELPSW-0000004
9	2EP00-0000001
10	ELV02-5000002

60 GAL. REPLACEMENT PARTS	
ITEM	PART NO.
13	---
-	ELV06-0000007
-	ELV06-0000010
14	---
-	ELH02-0000008
-	ELH02-0000009

100 GAL. REPLACEMENT PARTS	
ITEM	PART NO.
13	---
-	ELV06-0000007
-	ELV06-0000010
14	---
-	ELH03-0000010
-	ELH03-0000011

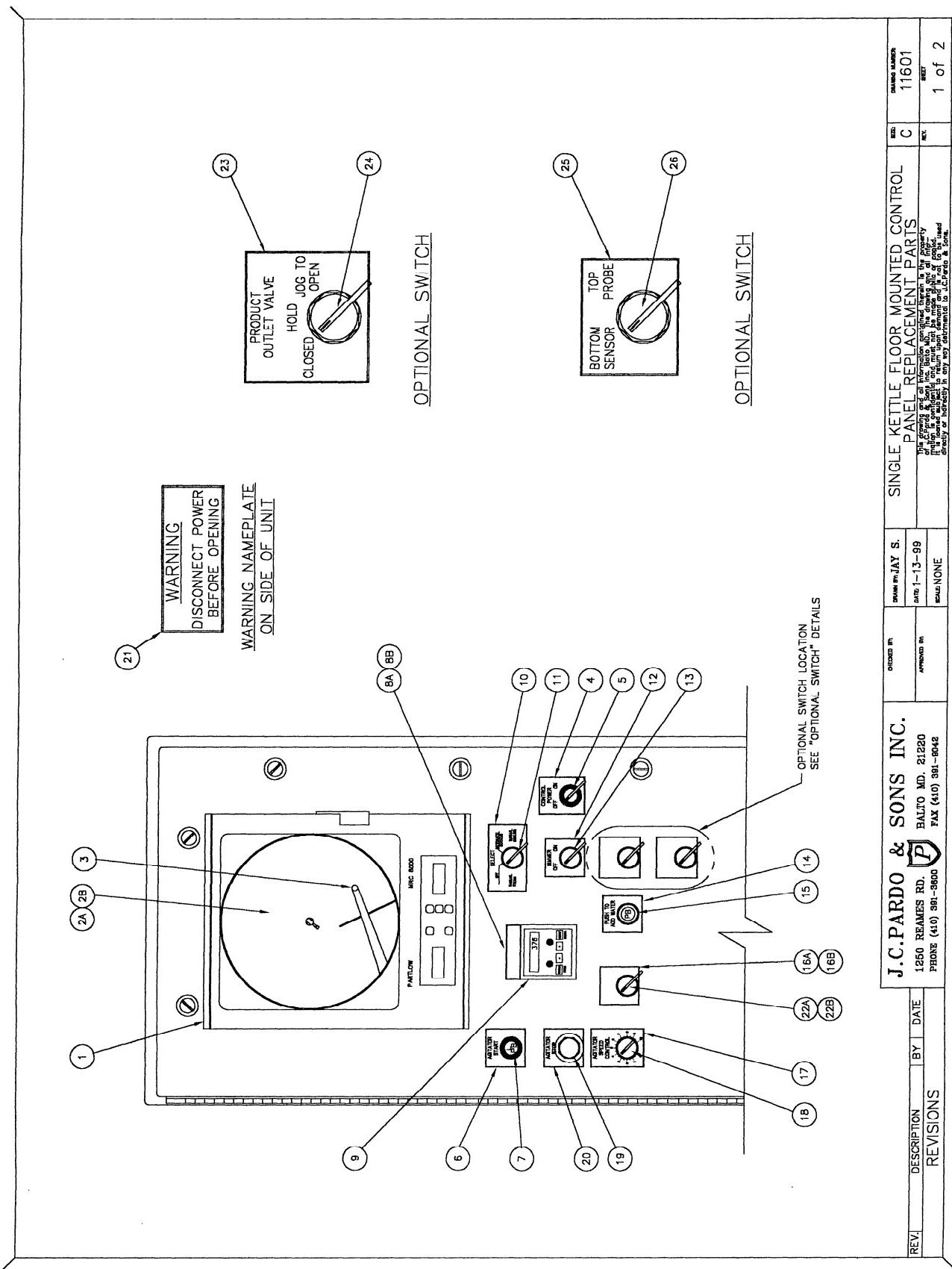
OPTIONAL TILTING KETTLE PARTS	
ITEM	PART NO.
11	ELPSW-0000005
-	ELV00-0000013
-	ELV00-0000023
12	ELV06-0000015

150/200 GAL. REPLACEMENT PARTS	
ITEM	PART NO.
13	---
-	ELV06-0000018
-	ELV06-0000004
14	---
-	ELH05-0000013
-	ELH05-0000014

REV.	DESCRIPTION	BY	DATE	CHANGED BY	CHANGED BY
	J.C.PARDO & SONS INC.		3/29/01		
	1250 REAMES RD.	BALTO MD.	21:220		
	PHONE (410) 381-8002	FAX (410) 381-8042			
	REVISIONS				

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2 of 2

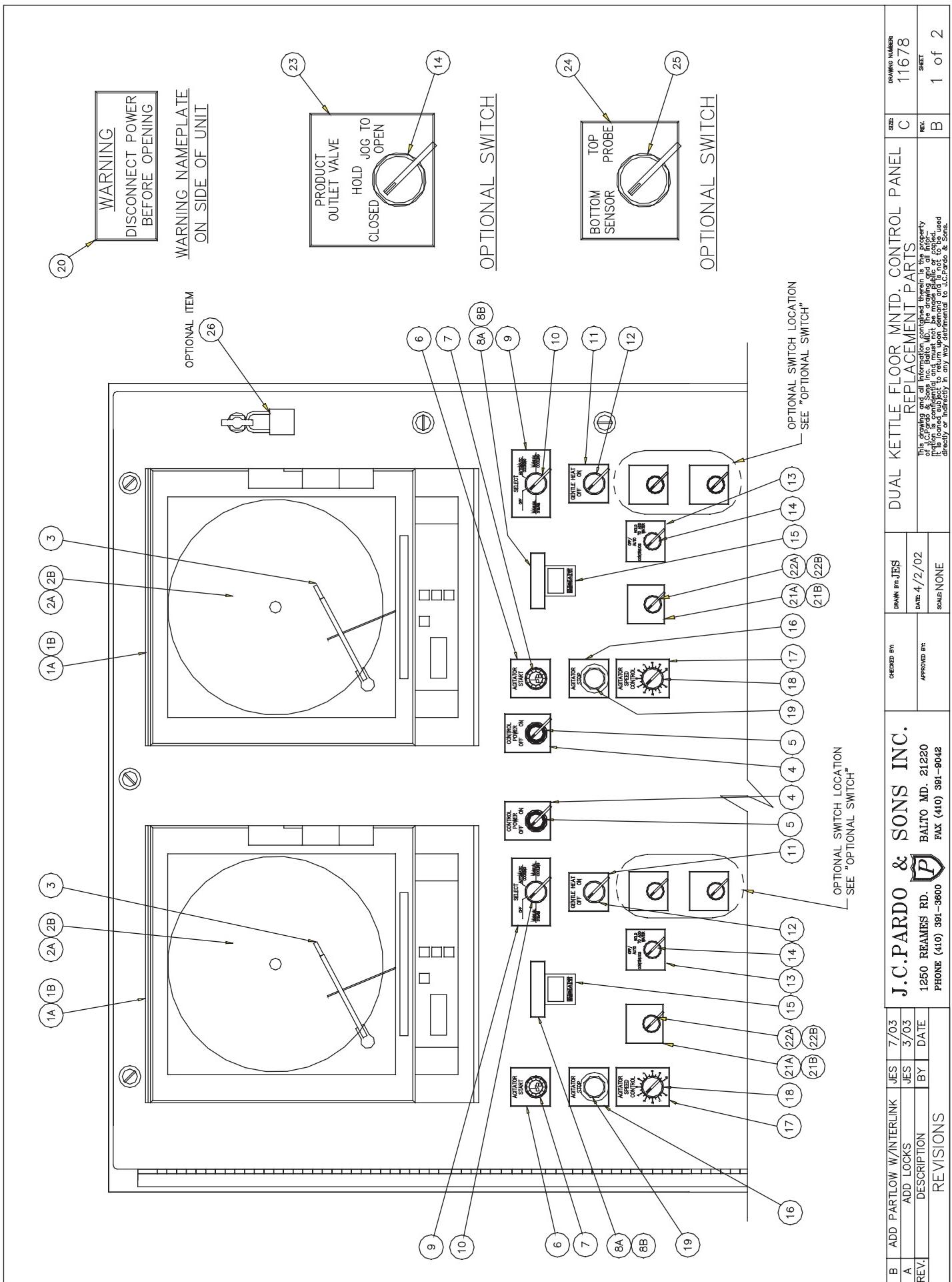


REPLACEMENT PARTS

ITEM	PART NO.	DESCRIPTION
1	EL8C0-0000042	PARTLOW 8000
-	EL977-7700019	REPLACEMENT PEN MOTOR ITEM #1
-	EL977-7700018	REPLACEMENT CHART MOTOR ITEM #1
-	EL977-7700020	REPLACEMENT TOUCH PAD COVER
2A	MSJ00-0000005	24 HOUR CHART PAPER 'F'
2B	MSJ00-0000006	24 HOUR CHART PAPER 'C'
3	MSP00-0000002	RED REPLACEMENT PEN
4	NPYELLOW00110	NAMEPLATE
5	2EP00-8800038	RED LIGHTED TURN SWITCH
-	ELV00-6000001	REPLACEMENT BULB FOR ITEM #5
6	NPYELLOW00103	NAMEPLATE
7	2EP00-8800047	GREEN LIGHTED PUSH BUTTON
-	ELV00-1200001	REPLACEMENT BULB FOR ITEM #7
8A	NPYELLOW00116	NAMEPLATE IN GALLONS
8B	NPYELLOW00155	NAMEPLATE IN LITERS
9	EL8C0-0000045	DIGITAL ATC WATER METER
10	NPYELLOW00111	NAMEPLATE
11	ELP00-8800001	FOUR POSITION SWITCH
12	NPYELLOW00107	NAMEPLATE
13	2EP00-8800006	TWO POSITION SWITCH
14	NPYELLOW00106	NAMEPLATE
15	2EP00-8800007	BLACK PUSH BUTTON
16A	NPYELLOW00119	NAMEPLATE COLD POTABLE WATER
16B	NPYELLOW00109	NAMEPLATE HOT/COLD POTABLE WATER
17	NPYELLOW00115	NAMEPLATE
18	ELP00-8800003	SPEED POT
19	2EP00-8800019	RED MUSHROOM PUSH BUTTON
20	NPYELLOW00104	NAMEPLATE
21	NPRED00000019	NAMEPLATE WARNING
22A	2EP00-8800009	TWO POSITION SWITCH
22B	2EP00-8800022	THREE POSITION SWITCH
23	NPYELLOW00241	NAMEPLATE (OPTIONAL)
24	2EP00-8800044	THREE POSITION SWITCH (OPTIONAL)
25	NPYELLOW00194	NAMEPLATE (OPTIONAL)
26	2EP00-8800043	TWO POSITION SWITCH (OPTIONAL)

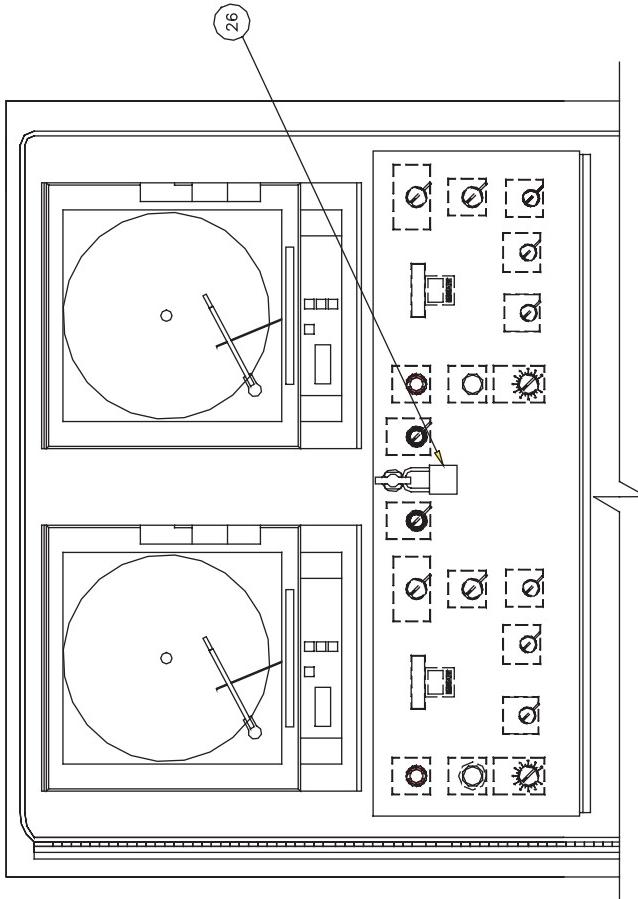
J.C.PARDO & SONS INC.			CREATED BY:	CREATED DATE:	REVISION NUMBER:
1250 BEAMERS RD. BALTIMORE MD 21220 PHONE (410) 391-3800	APPROVED BY:	JAY S.	APPROVED DATE:	1-13-99	C 11601 REV. 2 OF 2
REVISIONS					

REV.	DESCRIPTION	BY	DATE
	REVISIONS		



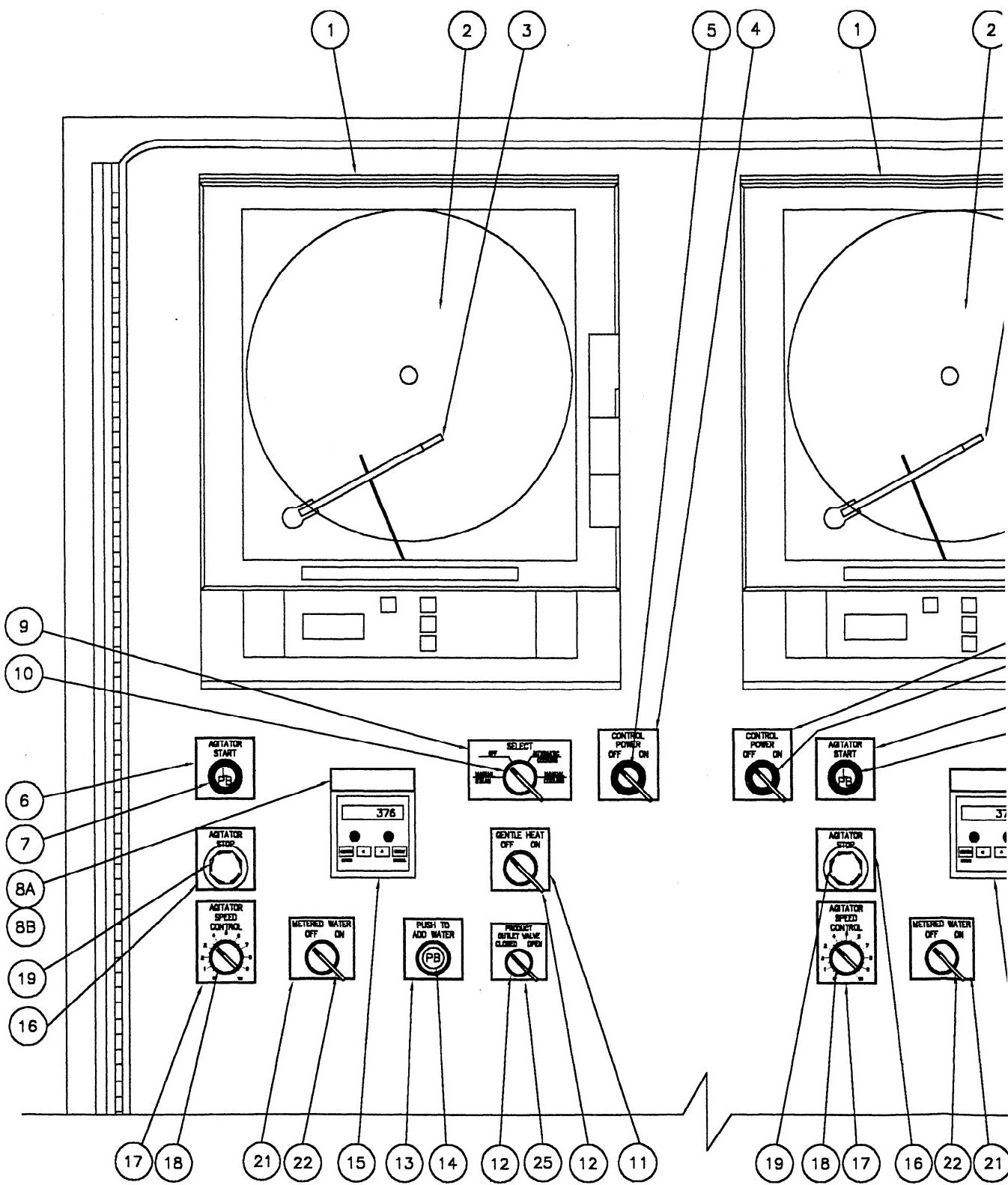
REPLACEMENT PARTS

ITEM	PART NO.	DESCRIPTION
1A	EL8CO-0000042	PARTLOW 8000
1B	EL8CO-0000070	PARTLOW 8000 W/INTERLINK(OPTIONAL)
-	EL977-7700019	REPLACEMENT PEN MOTOR: #1A,1B
-	EL977-7700018	REPLACEMENT CHART MOTOR: #1A,1B
-	EL977-7700020	REPLACEMENT TOUCH PAD: 1A,1B
-	ELP00-0000037	REPLACEMENT DOOR: #1A,1B
-	ELP00-0000036	REPLACEMENT DOOR WINDOW: #1A,1B
2A	MSJ00-0000005	24 HOUR CHART PAPER "F"
2B	MSJ00-0000006	24 HOUR CHART PAPER "C"
3	MSP00-0000002	RED REPLACEMENT PEN
4	NPYELLOW00110	NAMEPLATE
5	2EP00-8800025	RED LIGHTED TURN SWITCH
-	ELV00-6000001	REPLACEMENT BULB FOR ITEM #5
6	NPYELLOW00103	NAMEPLATE
7	2EP00-8800047	GREEN LIGHTED PUSH BUTTON
-	ELV00-1200001	REPLACEMENT BULB FOR ITEM #7
8A	NPYELLOW00116	NAMEPLATE IN GALLONS
8B	NPYELLOW00155	NAMEPLATE IN LITERS
9	NPYELLOW00111	NAMEPLATE
10	ELP00-8800001	FOUR POSITION SWITCH
11	NPYELLOW00107	NAMEPLATE
12	2EP00-8800006	TWO POSITION SWITCH
13	NPYELLOW00260	NAMEPLATE
14	2EP00-8800044	THREE POSITION SWITCH
15	EL8CO-0000067	DIGITAL REDLION WATER COUNTER
-	ELV02-5000019	REPLACEMENT .315A FUSE ITEM #15
16	NPYELLOW00104	NAMEPLATE
17	NPYELLOW00115	NAMEPLATE
18	ELP00-8800003	SPEED POT
19	2EP00-8800019	RED MUSHROOM PUSH BUTTON
20	NPRED00000019	NAMEPLATE WARNING
21A	NPYELLOW00119	NAMEPLATE
21B	NPYELLOW00109	NAMEPLATE (OPTIONAL)
22A	2EP00-8800009	TWO POSITION SWITCH
22B	2EP00-8800022	THREE POSITION SWITCH (OPTIONAL)
23	NPYELLOW00241	NAMEPLATE (OPTIONAL)
24	NPYELLOW00194	NAMEPLATE (OPTIONAL)
25	2EP00-8800043	TWO POSITION SWITCH (OPTIONAL)
26	HMLOCKS00001	PADLOCK AND KEY SET



OPTIONAL SWITCH COVER

B	ADD PARTLOW W/INTERLINK	JES 7/03	J.C.PARDO & SONS INC.	CHECKED BY: JES	DRAWN BY: JES	DUAL KETTLE FLOOR MNTD. CONTROL PANEL	size: C	DRAWING NUMBER: 11678
A	ADD LOCKS	JES 3/03	REVISIONS	APPROVED BY: DATE	REV. BY: DATE	REPLACEMENT PARTS	size: B	sheet: 1 of 2
REV.	DESCRIPTION	BY DATE	1250 REAMES RD. BALTO MD. 21220 PHONE (410) 391-3860 FAX (410) 391-9042	scale: NONE	REV. BY: DATE	This drawing and all information contained therein is the property of J.C. Pardo & Sons Inc. It is confidential and must not be reproduced or copied. It is loaned upon demand and is not to be used directly or indirectly in any way detrimental to J.C. Pardo & Sons Inc.	size: B	sheet: 2 of 2



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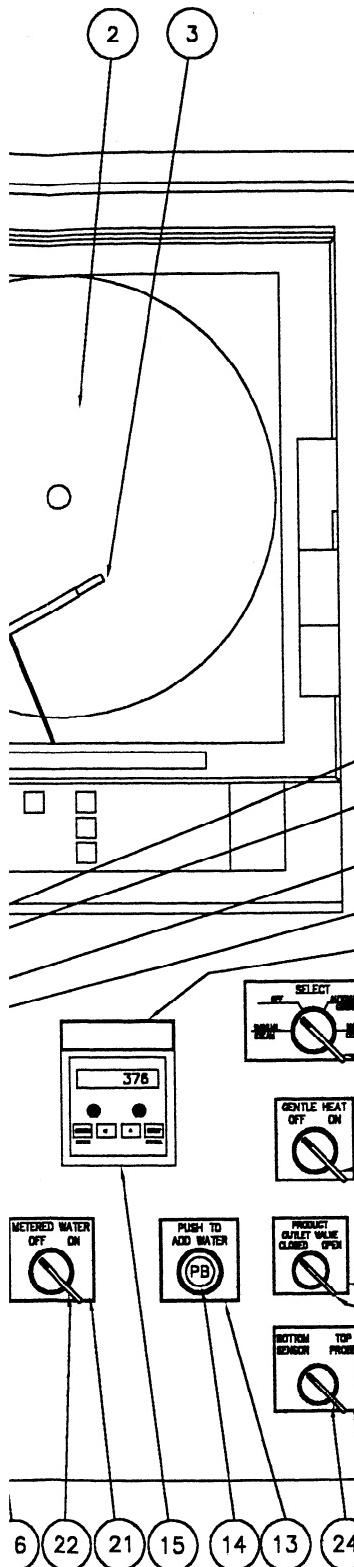
CHECKED BY:

APPROVED BY:

REV.	DESCRIPTION	BY	DATE
REVISIONS			

REPLACEMENT PARTS

ITEM	PART NO.	DESCRIPTION
1	EL8CO-0000042	PARTLOW 8000
-	EL977-7700018	CHART MOTOR FOR ITEM #1
-	EL977-7700019	PEN MOTOR FOR ITEM #1
-	EL977-7700020	TOUCH PAD FOR ITEM #1
2A	MSJ00-0000005	CHART PAPER IN °F
2B	MSJ00-0000006	CHART PAPER IN °C
3	MSP00-0000002	RED REPLACEMENT PEN
4	NPYELLOW00110	FUNCTION TAG
5	2EP00-8800025	RED LIGHTED TURN SWITCH
-	ELV00-6000001	REPLACEMENT BULB FOR SWITCH #5
6	NPYELLOW00103	FUNCTION TAG
7	2EP00-8800008	GREEN LIGHTED PUSH BUTTON
-	ELV00-2400001	REPLACEMENT BULB FOR SWITCH #7
8A	NPYELLOW00116	FUNCTION TAG FOR GALLONS
8B	NPYELLOW00155	FUNCTION TAG FOR LITERS
9	NPYELLOW00111	FUNCTION TAG
10	ELP00-8800001	FOUR POSITION SWTCH
11	NPYELLOW00107	FUNCTION TAG
12	2EP00-8800006	TWO POSITON TURN SWITCH
13	NPYELLOW00106	FUNCTION TAG
14	2EP00-8800007	BLACK PUSH BUTTON
15	EL8CO-0000045	DIGITAL ATC WATER COUNTER
16	NPYELLOW00104	FUNCTION TAG
17	NPYELLOW00115	FUNCTION TAG
18	ELP00-8800003	SPEED POT
19	2EP00-8800019	RED MUSHROOM PUSH BUTTON
20	NPRED00000019	WARNING TAG
21	NPYELLOW00119	FUNCTION TAG
22	2EP00-8800009	2 POSITION TURN SWITCH
23	NPYELLOW00194	FUNCTION TAG
24	2EP00-8800043	2 POSITION TURN SWITCH
25	NPYELLOW00118	FUNCTION TAG



8A
8B
POTABLE WATER METER IN GALLONS
POTABLE WATER METER IN LITERS

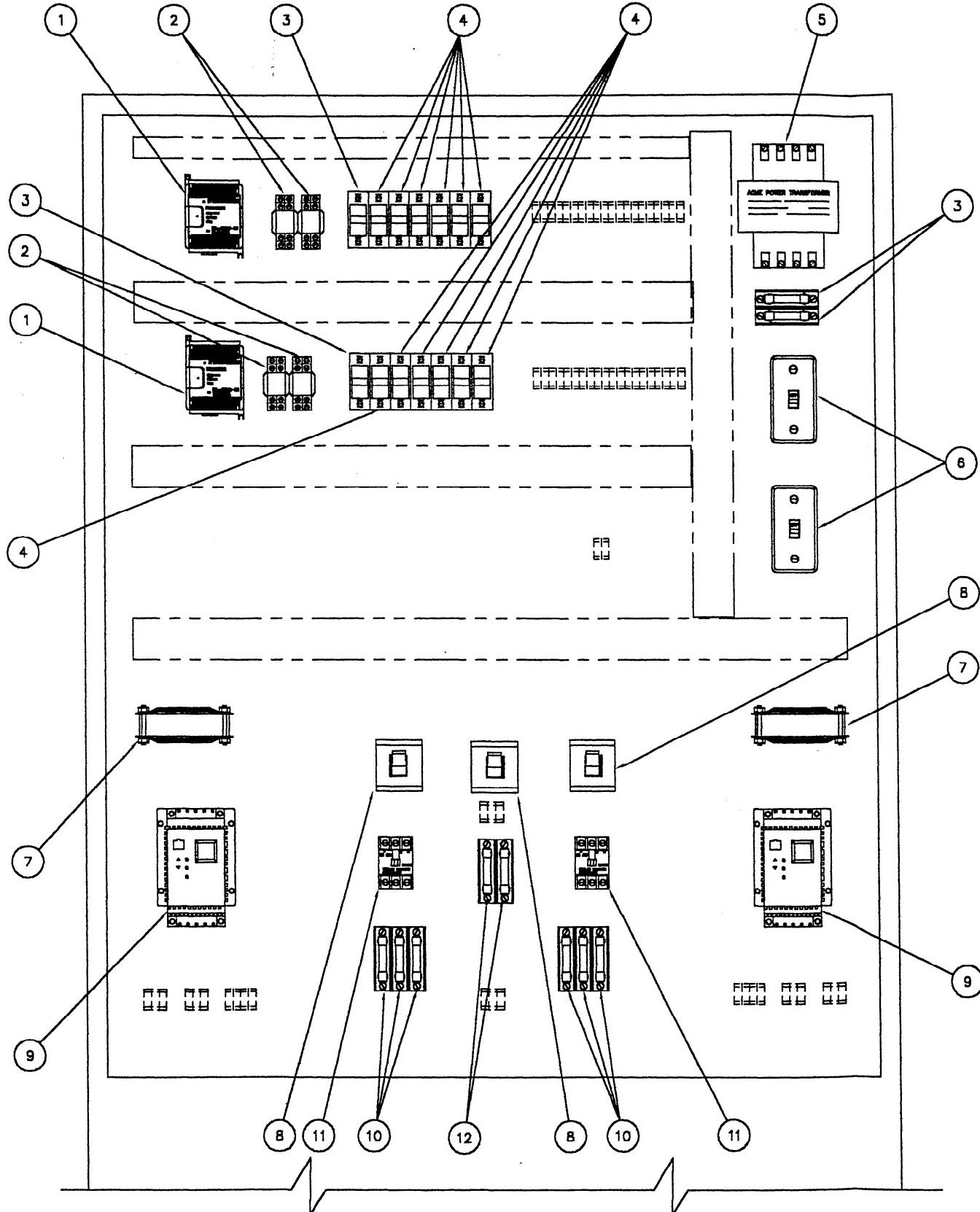
20
WARNING
DISCONNECT POWER BEFORE OPENING

CHECKED BY:	DRAWN BY: JES
APPROVED BY:	DATE: 2/1/00
SCALE: NONE	

DUAL CONTROL PANEL REPLACEMENT PARTS

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SIZE: C	DRAWING NUMBER: 11533
REV.:	SHEET 1 of 1



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1250 REAMES RD.
PHONE (410) 391-3600



BALTO MD. 21220
FAX (410) 391-9042

CHECKED BY

DRAWN BY JES

APPROVED BY

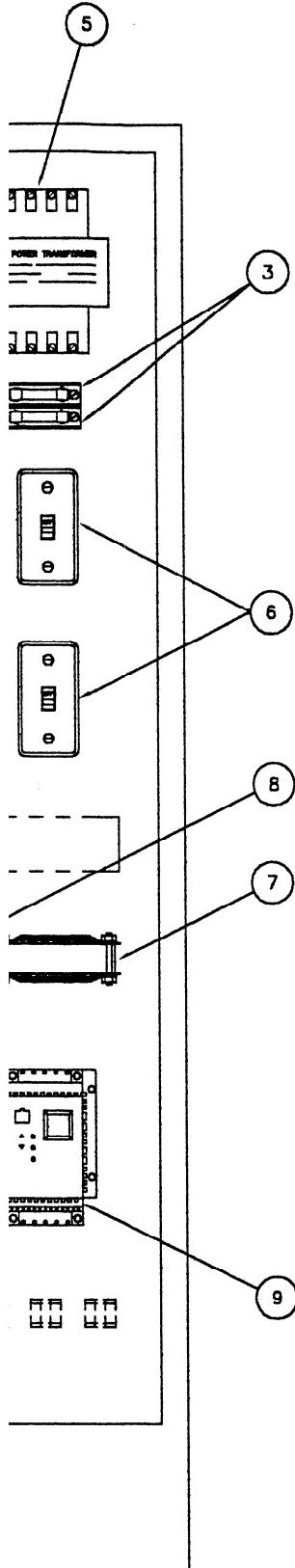
DATE: 8-24-0

SCALE: NONE

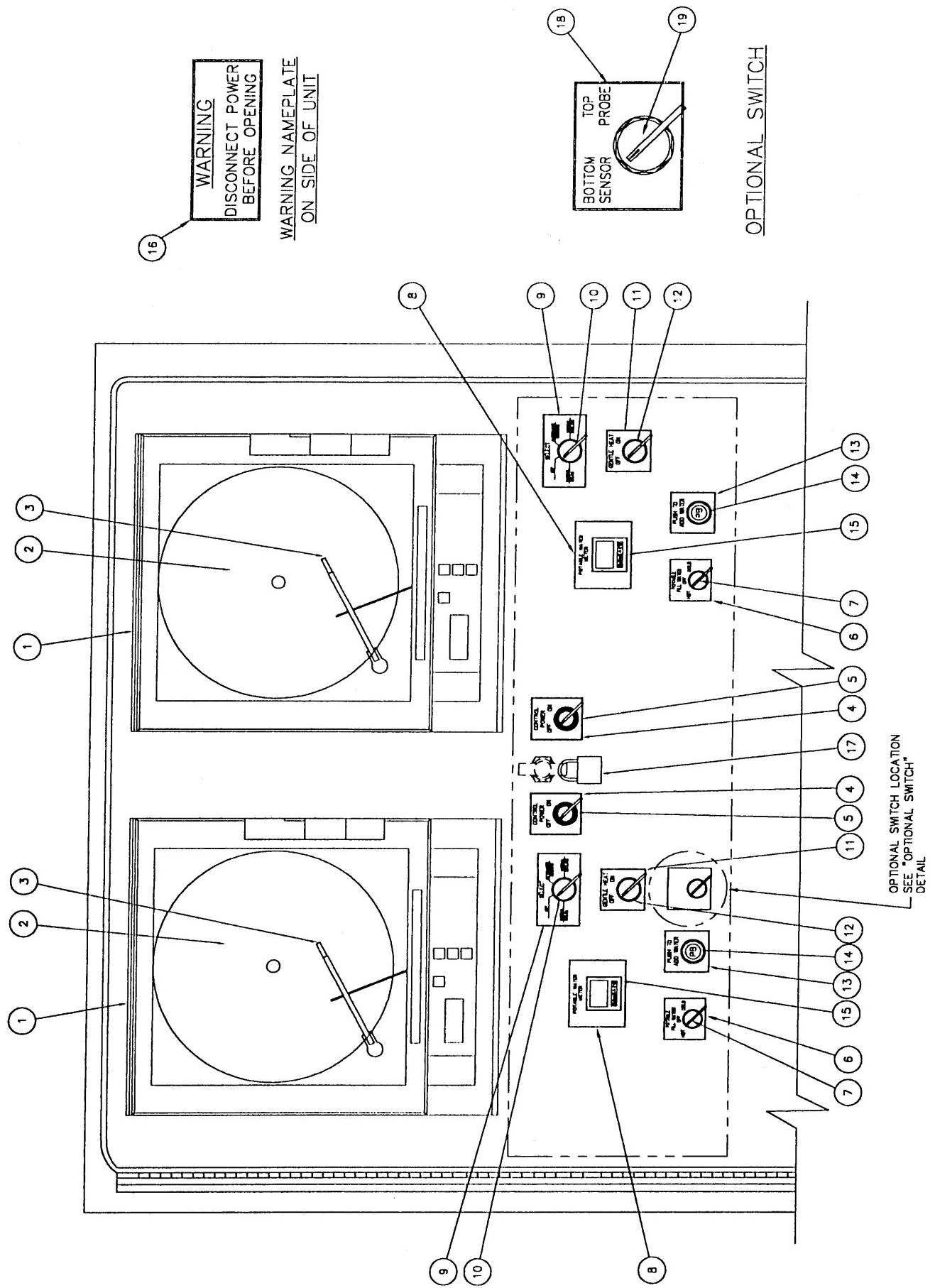
REV.	DESCRIPTION	BY	DATE
REVISIONS			

REPLACEMENT PARTS

ITEM	PART NO.	DESCRIPTION
1	EL8CO-0000046	MITSUBISHI CONTROLLER
2	ELPSW-0000002	RELAY
-	ELPSW-0000003	RELAY MODULE BASE
3	ELV02-5000001	5 AMP FUSE
4	ELV02-5000002	1 AMP FUSE
5	ELV10-0000001	TRANSFORMER 1000VA
6	ELPSW-0000007	DUAL POLE SWITCH
7	2EP00-0000001	FAN W/ SHROUDING
8	ELPSW-0000001	3 POLE SWITCH
9	ELH02-0000008	2 H.P. INVERTER 208V
10	ELV06-0000004	15 AMP FUSE
11	ELPSW-0000004	MOTOR CONTACTOR
12	ELV06-0000002	8 AMP FUSE



CHECKED BY:	DRAWN BY JES	DUAL CONTROL PANEL INTERIOR 2HP-208v REPLACEMENT PARTS		SIZE: C	DRAWING NUMBER: 11550
APPROVED BY:	DATE: 8-24-00	This drawing and all information contained therein is the property of J.C.Pardo & Sons, Inc., Beltsville MD. The drawing and all information is confidential and must not be made public or copied. It is loaned subject to return upon demand and is not to be used directly or indirectly in any way detrimental to J.C.Pardo & Sons.	REV.	SHEET	1 of 1
	SCALE: NONE				



OPTIONAL SWITCH LOCATION
SEE "OPTIONAL SWITCH"
DETAIL

REV.	DESCRIPTION	BY	DATE	REVISIONS	DRAWING NUMBER
	J.C. PARDO & SONS INC. 1250 REAMES RD. BALTO MD. 21220 PHONE (410) 381-3800 FAX (410) 381-9842		3/27/02		C 11656
					1 of 2

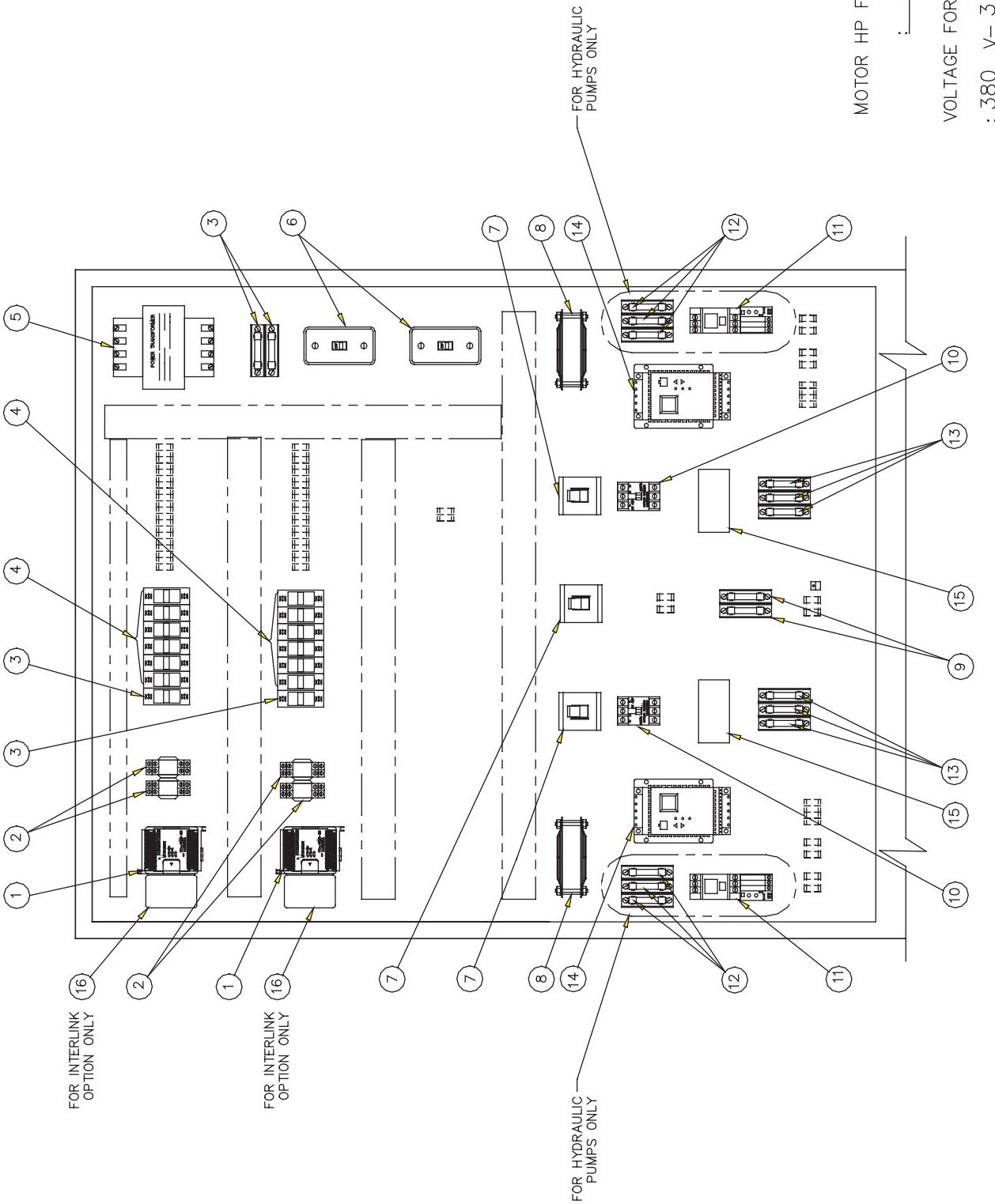
REPLACEMENT PARTS

REPLACEMENT PARTS		
ITEM	PART NO.	DESCRIPTION
1	EL8CO-0000042	PARTLOW 8000
-	EL977-7700019	REPLACEMENT PEN MOTOR ITEM #1
-	EL977-7700018	REPLACEMENT CHART MOTOR ITEM #1
-	EL977-7700020	REPLACEMENT TOUCH PAD COVER
-	ELP00-0000037	REPLACEMENT DOOR FOR ITEM #1
-	ELP00-0000036	REPLACEMENT DOOR WINDOW ITEM #1
2	MSJ00-0000005	24 HOUR CHART PAPER 'F'
3	MSP00-0000002	RED REPLACEMENT PEN
4	NPYELLOW00110	NAMEPLATE
5	2EP00-8800025	RED LIGHTED TURN SWITCH
-	ELV00-5000001	REPLACEMENT BULB FOR ITEM #5
6	NPYELLOW00109	NAMEPLATE
7	2EP00-8800022	THREE POSITION SWITCH
8	NPYELLOW00257	NAMEPLATE
9	NPYELLOW00111	NAMEPLATE
10	ELP00-8800001	FOUR POSITION SWITCH
11	NPYELLOW00107	NAMEPLATE
12	2EP00-8800006	TWO POSITION SWITCH
13	NPYELLOW00106	NAMEPLATE
14	2EP00-8800007	BLACK PUSH BUTTON
15	EL8CO-0000067	DIGITAL REDLION WATER COUNTER
-	ELV02-5000019	REPLACEMENT .315A FUSE ITEM #15
16	NPRED00000019	NAMEPLATE WARNING
17	HWLOCKSC000001	PADLOCK WITH KEYS
18	NPYELLOW00194	NAMEPLATE (OPTIONAL)
19	2EP00-8800043	TWO POSITION SWITCH (OPTIONAL)

J.C.PARDO & SONS INC.

J.C.PARDO & SONS INC.
 1250 REAMES RD. 
 PHONE (410) 381-3860
 BALTO MD. 21220
 FAX (410) 381-9042

REV.	DESCRIPTION	BY	DATE
REVISIONS			



J. C. PARDO & SONS INC.		CHECKED BY: JES	PRINTED BY: JES	DRAWING NUMBER: 11614
REV.	ADDED #15	DATE: 6/01	DATE: 4-9-01	REV. SHEET
REV.	DESCRIPTION: REVISIONS	BY: DATE	APPROVED BY: DATE	C A
			SCALE: NONE	1 of 2

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UNIVERSAL REPLACEMENT PARTS	
ITEM	PART NO.
1	EL8CO-00000046
2	ELPSW-00000002
	RELAY PROGRAMMABLE CONTROLLER
3	ELV02-50000001
4	ELV02-50000002
	REPLACEMENT BASE FOR ITEM #2 5 AMP FUSE 1 AMP FUSE
5	---
	TRANSFORMER BY SYSTEM VOLTAGE TRANSFORMER = 208/380V SYSTEM TRANSFORMER = 230/460V SYSTEM
6	ELPSW-00000007
7	ELPSW-00000001
8	2EP00-00000001
	LOW VOLTAGE DISCONNECT HIGH VOLTAGE DISCONNECT FAN WITH SHROUDS
9	---
	FUSES BY SYSTEM VOLTAGE FUSES = 208V SYSTEM 8 AMP FUSE – 208V SYSTEM 7 AMP FUSE – 230V SYSTEM
10	ELV06-00000004
	5 AMP FUSE – 380V SYSTEM 4 AMP FUSE – 460V SYSTEM MOTOR CONTACTOR

OPTIONAL HYDRAULIC PUMP STARTER PARTS		
ITEM	PART NO.	DESCRIPTION
11	ELPSW-00000005	HYDRAULIC MOTOR STARTER
-	ELV00-0000013	HEATER PACK FOR ITEM #9 208/230V
-	ELV00-0000023	HEATER PACK FOR ITEM #9 380/460V
12	ELV06-0000015	3 AMP FUSE

2 HP MOTOR REPLACEMENT PARTS		
ITEM	PART NO.	DESCRIPTION
13	---	FUSES BY VOLTAGE
-	ELV06-00000007	20 AMP FUSE 208/230V
-	ELV06-00000010	10 AMP FUSE 380/460V
14	---	INVERTER BY VOLTAGE
-	ELH02-00000008	2 HP INVERTER, 208/230V
-	ELH02-00000009	2 HP INVERTER, 380/460V
15	----	LINE REACTORS BY VOLTAGE & HP
-	ELV00-0000024	LINE REACTOR 2HP 208/230/460V

3 HP MOTOR REPLACEMENT PARTS		
ITEM	PART NO.	DESCRIPTION
13	---	FUSES BY VOLTAGE
-	ELV06-0000007	20 AMP FUSE 208/230V
-	ELV06-0000010	10 AMP FUSE 380/460V
14	---	INVERTER BY VOLTAGE
-	ELH03-0000010	3 HP INVERTER, 208/230V
-	ELH03-0000011	3 HP INVERTER, 380/460V
15	---	LINE REACTORS BY VOLTAGE & HP
-	ELV00-0000024	LINE REACTOR 3HP 208/230/460V

5 HP MOTOR REPLACEMENT PARTS		
ITEM	PART NO.	DESCRIPTION
13	---	FUSES BY VOLTAGE
-	ELV06-00000018	30 AMP FUSE 208/230V
-	ELV06-0000004	15 AMP FUSE 380/460V
14	---	INVERTER BY VOLTAGE
-	ELH05-0000013	5 HP INVERTER, 208/230V
-	ELH05-0000014	5 HP INVERTER, 380/460V

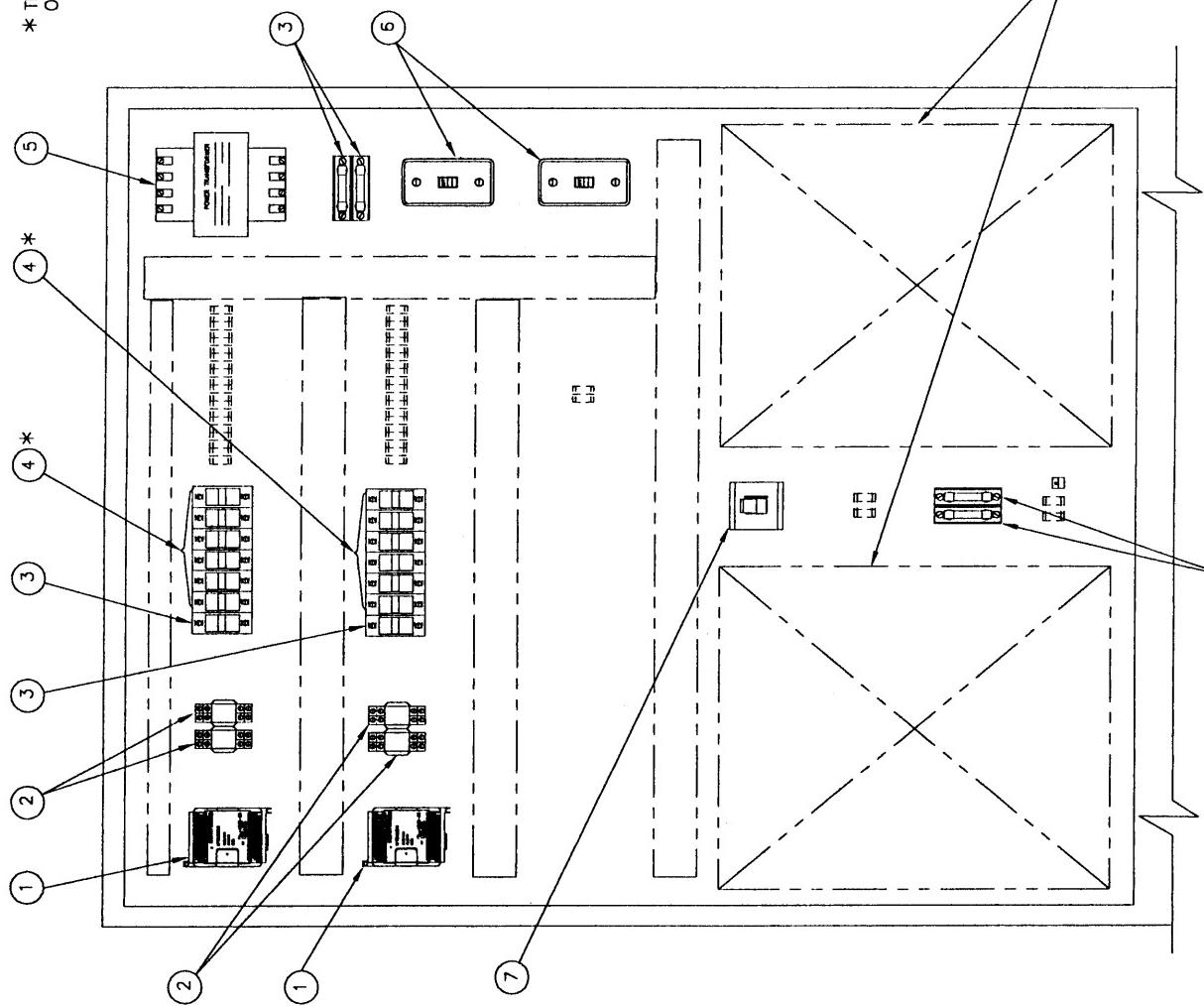
OPTIONAL INTERLINK REPLACEMENT PARTS		
ITEM	PART NO.	DESCRIPTION
16	EL8C0-0000057	COMMUNICATIONS MODULE FOR CONTROLLER

3 HP.

VOLTAGE FOR THIS JOB IS
: 380 V- 3 PH- 50HZ.

FOR MOTOR HOOKUPS ON THE
RIGHT SIDE MIRROR THIS LAYOUT

* THE PASTA KETTLE HAS
ONLY FIVE 1 AMP FUSES



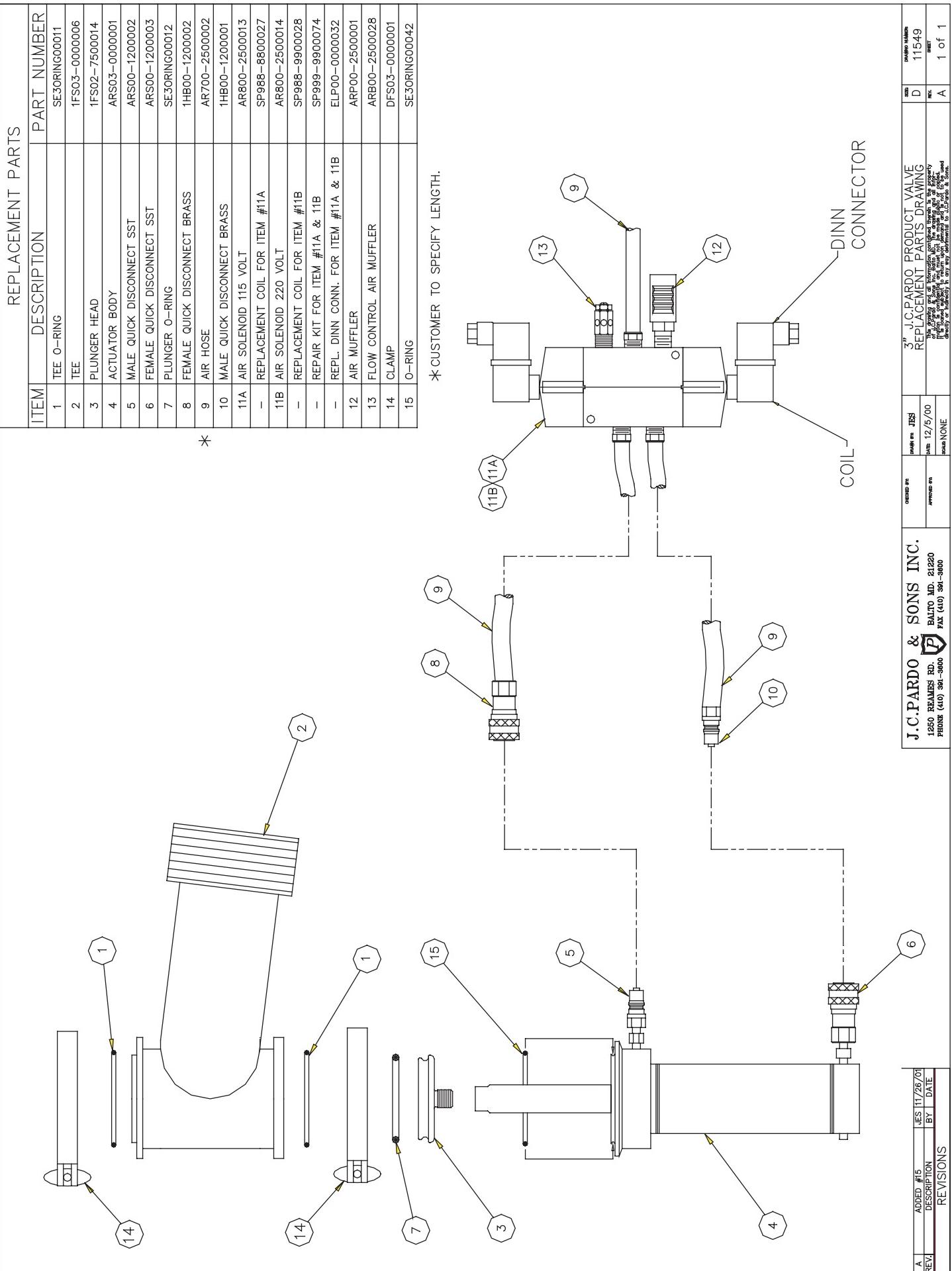
MOTOR HOOKUP DETAIL
FOR MIXER KETTLES ONLY

FOR MIXER KETTLES SEE
MOTOR HOOKUP DETAIL AND FOR
PASTA KETTLE THERE IS NOTHING
REQUIRED IN THIS AREA.

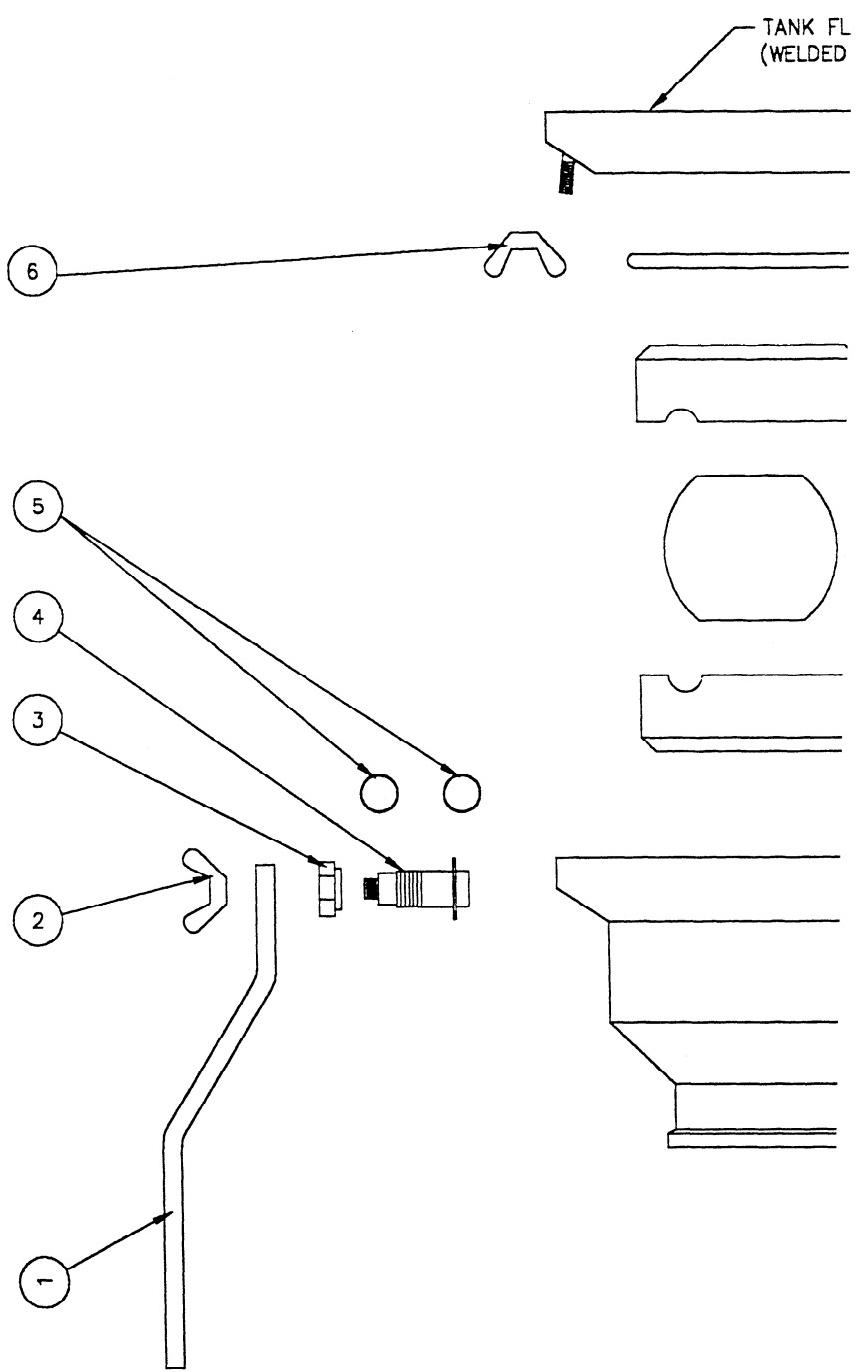
A	ADDED #	15	DESIGN BY	JES	CHECKED BY	APPROVED BY	DATE	REVISIONS	DRAWING NUMBER
REV.	DESCRIPTION						10/23/01		208/230/380/460V HAK or TILT W/PASTA C 11632

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1 of 2

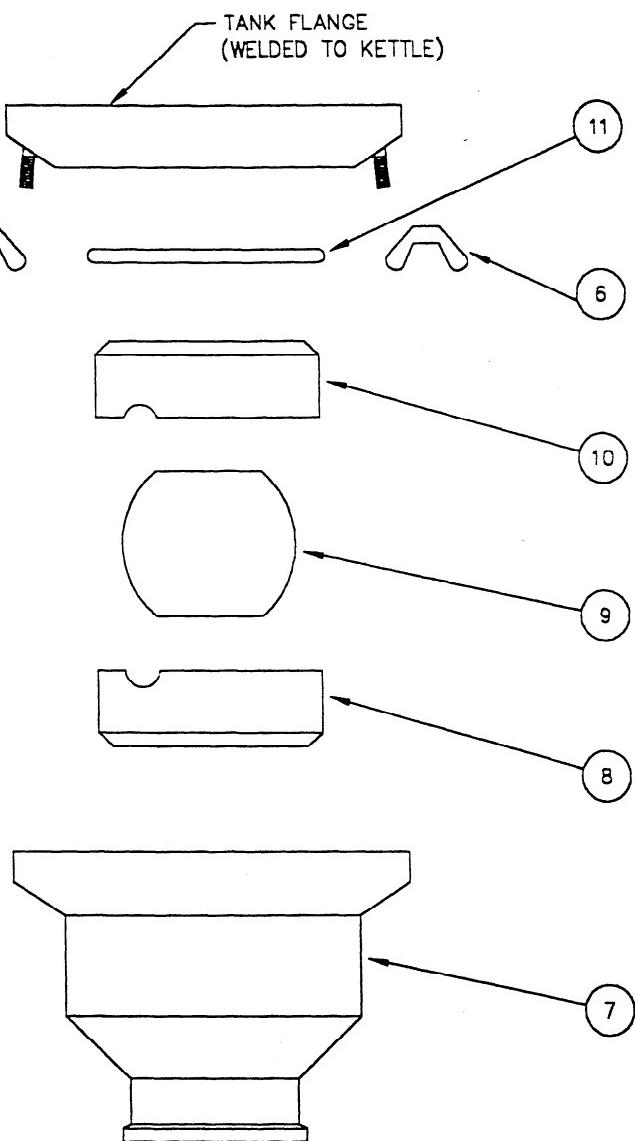


J.C.PARDO & SONS INC.		CHARGE PT.	ISSUE BY TEST	DATE ISSUED	REV. NO.	DRAWING NUMBER
1250 BRAVES RD. BALTO. MD. 21220		AMERICAN INSTRUMENTS	12/5/00	11549	SHEET	
PHONE (410) 391-3800 FAX (410) 391-3800		AMERICAN INSTRUMENTS	SOURCE NONE	A	1 of 1	
REVISIONS						



REPLACEMENT PARTS

ITEM	PART NO.	DESCRIPTION
1	SPS03-000005	HANDLE
2	HWS00-500005	WING NUT 1/2-13
3	HWS00-000002	PACKING NUT
4	SPS00-000003	STEM
5	SPF00-000001	STEM SEAL
6	HWS00-380005	WING NUT 3/8-16
7	SPS03-000004	VALVE BODY
8	SPF03-000005	DISCHARGE SEAL
9	SPS03-000006	BALL
10	SPF03-000004	INTAKE SEAL
11	SE30RING00008	O-RING

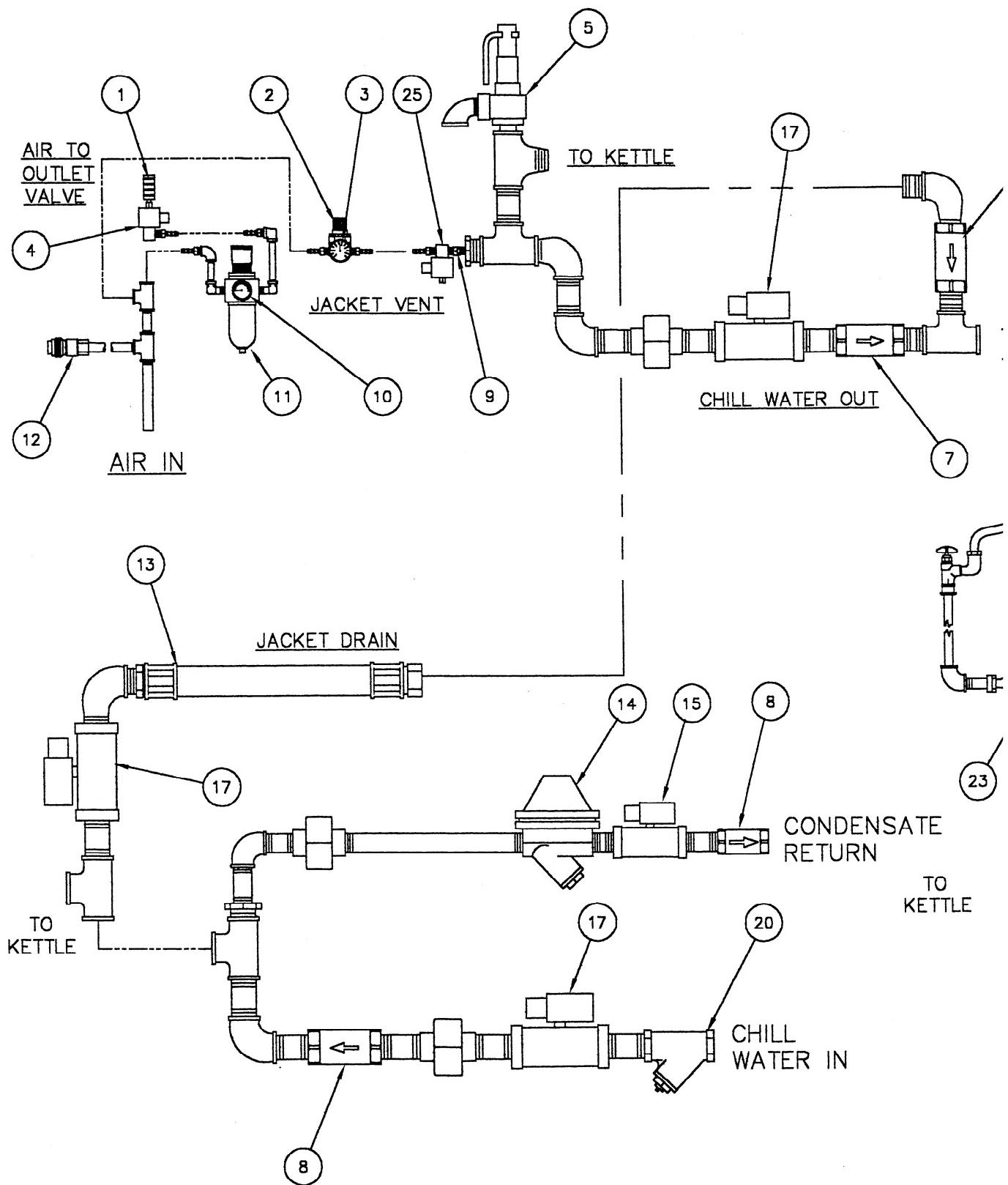


JOB #

J.C.PARDO & SONS INC.

1250 REAMES RD.  BALTO. MD. 21220

SCALE: NONE	APPROVED BY:	DRAWN BY:
DATE: 7/21/95		Laurie Yori
3" LEE FLUSH TANK BALL VALVE REPLACEMENT PARTS		
SHEET 1 of 1		DRAWING NUMBER: C 11115 REV.



REV.	DESCRIPTION	BY	DATE
REVISIONS			

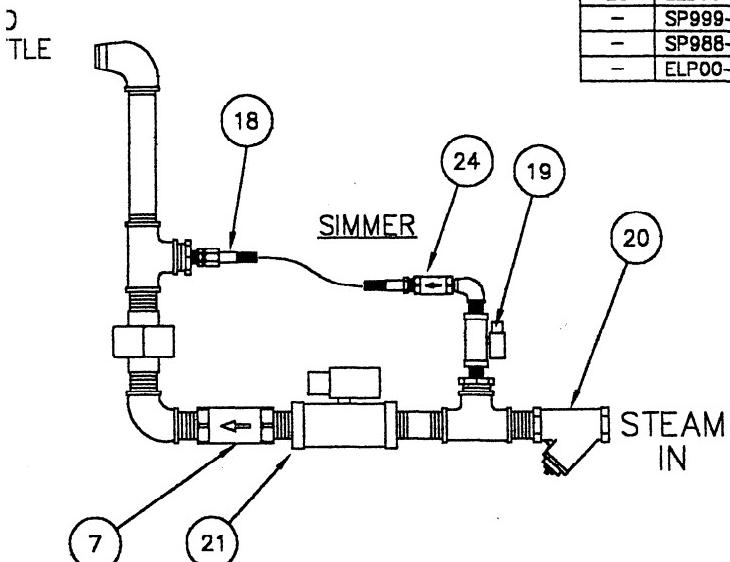
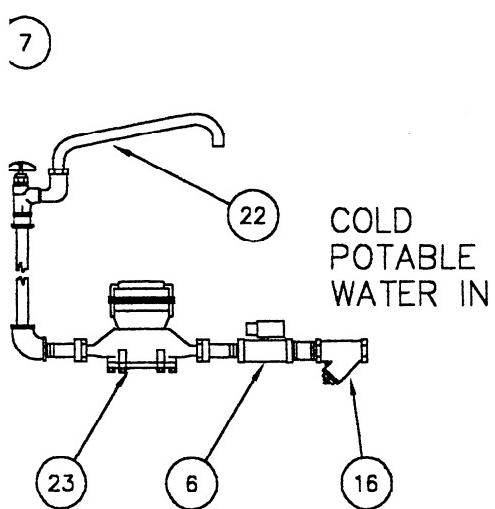
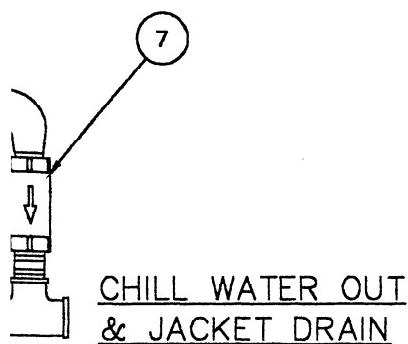
J.C.PARDO & SONS INC.
 1250 REAMES RD. 
 BALTO MD. 21220
 PHONE (410) 381-3800 FAX (410) 381-9042

CHECKED BY:

APPROVED BY:

REPLACEMENT PARTS LIST

ITEM	PART NO.	DESCRIPTION
1	ARP00-2500001	AIR MUFFLER
2	AR800-3700002	MINI AIR REGULATOR
3	AR800-2500002	REPLACEMENT GAUGE
4	ELB00-2500011	OUTLET VALVE SOLENOID
-	SP999-9900010	REPLACEMENT KIT FOR ITEM #4
-	SP988-8800004	REPLACEMENT COIL FOR ITEM #4
-	ELP00-0000000	REPLACEMENT DNN CONN. FOR ITEM #4
5	VAB00-7500005	50 PSI SAFETY VALVE
6	ELB00-5000015	POTABLE WATER IN SOLENOID
-	SP999-9900002	REPLACEMENT KIT FOR ITEM #6
-	SP988-8800002	REPLACEMENT COIL FOR ITEM #6
-	ELP00-0000000	REPLACEMENT DNN CONN. FOR ITEM #6
7	MSB00-7500004	BALL CONE CHECK VALVE
8	MSB00-5000005	BALL CONE CHECK VALVE
9	VAB00-2500001	NO LEAK CHECK VALVE
10	AR800-2500002	REPLACEMENT GAUGE
11	AR800-2500001	AIR REGULATOR
12	ARB00-5000001	AIR QUICK DISCONNECT
13	PBD00-7500001	JACKET DRAIN HOSE
14	MSC00-5000002	STEAM TRAP
-	SP999-9900017	REPAIR KIT FOR ITEM #14
15	ELB00-5000016	CONDENSATE SOLENOID
-	SP999-9900006	REPLACEMENT KIT FOR ITEM #15
-	SP988-8800003	REPLACEMENT COIL FOR ITEM #15
-	ELP00-0000000	REPLACEMENT DNN CONN. FOR ITEM #15
16	MSB00-5000001	50 MESH STRAINER
-	MSB00-5000006	REPLACEMENT SCREEN FOR ITEM #16
17	ELB00-7500015	JACKET DRAIN SOLENOID
-	SP999-9900004	REPLACEMENT KIT FOR ITEM #17
-	SP988-8800002	REPLACEMENT COIL FOR ITEM #17
-	ELP00-0000000	REPLACEMENT DNN CONN. FOR ITEM #17
18	PBS00-3800001	FLEXABLE SIMMER LINE
19	ELB00-2500012	SIMMER SOLENOID
-	SP999-9900009	REPLACEMENT KIT FOR ITEM #19
-	SP988-8800003	REPLACEMENT COIL FOR ITEM #19
-	ELP00-0000000	REPLACEMENT DNN CONN. FOR ITEM #19
20	MSB00-7500001	50 MESH STRAINER
-	MSB00-7500006	REPLACEMENT SCREEN FOR ITEM #20
21	ELB00-7500016	STEAM IN SOLENOID
-	SP999-9900007	REPLACEMENT KIT FOR SOLENOID #21
-	SP988-8800003	REPLACEMENT COIL FOR SOLENOID #21
-	ELP00-0000000	REPLACEMENT DNN CONN. FOR ITEM #21
22	PBB00-5000024	FILL FAUCET
23	ELB00-5000002	WATER METER UNIT
-	EL977-7700001	REPLACEMENT RESISTOR FOR ITEM #23
-	EL977-7700011	REPLACEMENT REED SWITCH FOR ITEM #23
24	MSB00-3800001	BALL CONE CHECK VALVE
25	ELB00-25000013	JACKET VENT SOLENOID
-	SP999-9900064	REPLACEMENT KIT FOR ITEM #25
-	SP988-8800002	REPLACEMENT COIL FOR ITEM #25
-	ELP00-0000000	REPLACEMENT DNN CONN. FOR ITEM #25

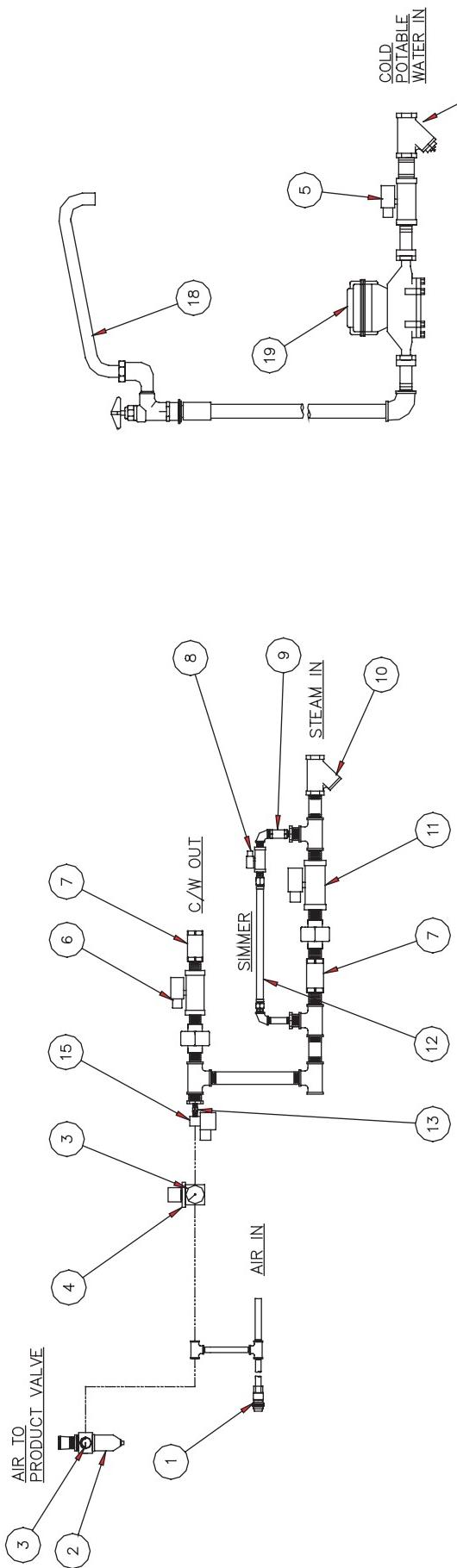


BY: DRAWN BY: JAY S.
DATE: 2/4/00
SCALE: NONE

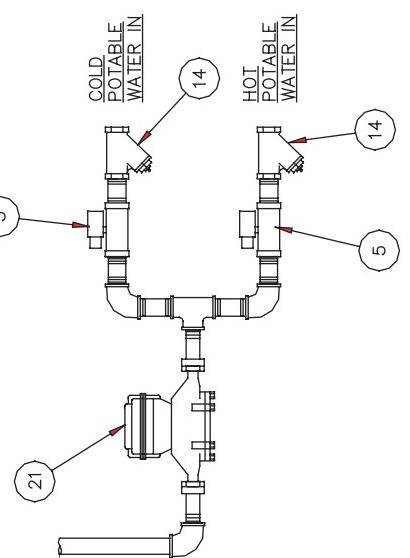
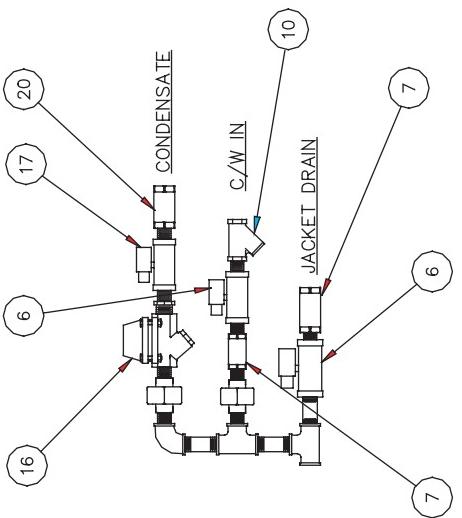
60-HAK PLUMBING W/DNN CONN.
REPLACEMENT PARTS

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SIZE: C DRAWING NUMBER: 11524
REV. SHEET 1 of 1



ALL COMPONENTS AND FEATURES SHOWN DO NOT APPEAR ON ALL KETTLES
IGNORE ALL COMPONENTS AND FEATURES NOT APPEARING ON YOUR KETTLE



OPTIONAL HOT/COLD POTABLE WATER

REV.	DESCRIPTION	BY	DATE	REVISIONS	ISSUE NUMBER	DATE	REVISIONS	ISSUE NUMBER	DATE
	J.C.PARDO & SONS INC.	BALTIMORE, MD.	21220		HANK-DL-150-200-T PLUMBING W/DINN CONNECTORS REPLACEMENT PARTS	D		11628	

PLUMBING W/DINN CONNECTORS REPLACEMENT PARTS
HANK-DL-150-200-T
J.C.PARDO & SONS INC.
1250 RAMSES RD.
BALTIMORE, MD. 21220
PHONE (410) 391-3900
FAX (410) 391-3900

REV.	DESCRIPTION	BY	DATE	REVISIONS	ISSUE NUMBER	DATE	REVISIONS	ISSUE NUMBER	DATE

1 of 2

ALL COMPONENTS AND FEATURES SHOWN DO NOT APPEAR ON ALL KETTLES
IGNORE ALL COMPONENTS AND FEATURES NOT APPEARING ON YOUR KETTLE

REPLACEMENT PARTS LIST

REPLACEMENT PARTS LIST		
ITEM	PART NO.	DESCRIPTION
1	ARB00-50000001	QUICK DISCONNECT
2	AR800- 25000001	AIR FILTER REGULATOR
3	AR800- 25000004	REPLACEMENT GAUGE
4	AR800- 25000003	MINI AIR REGULATOR
5	ELB00- 75000015	SOLENOID, POTABLE WATER IN
		REPLACEMENT KIT FOR ITEM #5
-	SP999-99000004	REPLACEMENT COIL FOR ITEM #5
-	SP988-88000002	REPLACEMENT DINN CONN. FOR ITEM #5
-	ELP00-00000000	SOL. CHILL WATER IN/OUT & JACKET DR.
6	ELB01-25000011	REPLACEMENT KIT FOR ITEM #6
-	SP999-99000005	REPLACEMENT COIL FOR ITEM #6
-	SP988-88000002	REPLACEMENT DINN CONN. FOR ITEM #6
-	ELP00-00000000	BALL CONE CHECK VALVE
7	MSB01-25000004	SOLENOID, SIMMER
		REPLACEMENT KIT FOR ITEM #8
-	SP999-99000006	REPLACEMENT COIL FOR ITEM #8
-	SP988-88000003	REPLACEMENT DINN CONN. FOR ITEM #8
-	ELP00-00000000	BALL CONE CHECK VALVE
8	ELB00-50000016	STRAINER
-	SP999-99000006	REPLACEMENT SCREEN FOR ITEM #10
-	MSB00-50000005	REPLACEMENT SCREEN FOR ITEM #10
9	MSB01-25000001	REVISIONS
-	MSB01-25000005	REVISIONS
10	MSB01-25000001	
-	MSB01-25000005	
11	ELB01-25000012	SOLENOID, STEAM IN
-	SP999-99000008	REPLACEMENT KIT FOR ITEM #11
-	SP988-88000003	REPLACEMENT COIL FOR ITEM #11
-	ELP00-00000000	REPLACEMENT DINN CONN. FOR ITEM #11
12	PBS00-5000026	FLEXIBLE SST BRAIDED HOSE
		NO LEAK CHECK VALVE
13	VAB00-25000001	SOLENOID, JACKET VENT
14	MSB00-75000001	REPLACEMENT SCREEN FOR ITEM #14
		STRAINER
15	ELB00-25000013	SOLENOID, JACKET VENT
-	SP999-99000064	REPLACEMENT KIT FOR ITEM #15
-	SP988-88000002	REPLACEMENT COIL FOR ITEM #15
-	ELP00-00000000	REPLACEMENT DINN CONN. FOR ITEM #15
16	MSC00-75000002	STEAM TRAP
-	SP999-99000017	REPLACEMENT KIT FOR ITEM #16
17	ELB01-00000014	SOLENOID, CONDENSATE
-	SP999-99000008	REPLACEMENT KIT FOR ITEM #17
-	SP988-88000003	REPLACEMENT COIL FOR ITEM #17
-	ELP00-00000000	REPLACEMENT DINN CONN. FOR ITEM #17
18	PBB00-75000018	FILL FAUCET
-	PBB00-75000021	REPLACEMENT SWING SPOUT FOR ITEM #18
19	ELB00-75000017	DIGITAL COLD WATER METER
20	MSB01-00000003	BALL CONE CHECK VALVE
21	ELB00-75000018	DIGITAL HOT WATER METER (OPTIONAL)

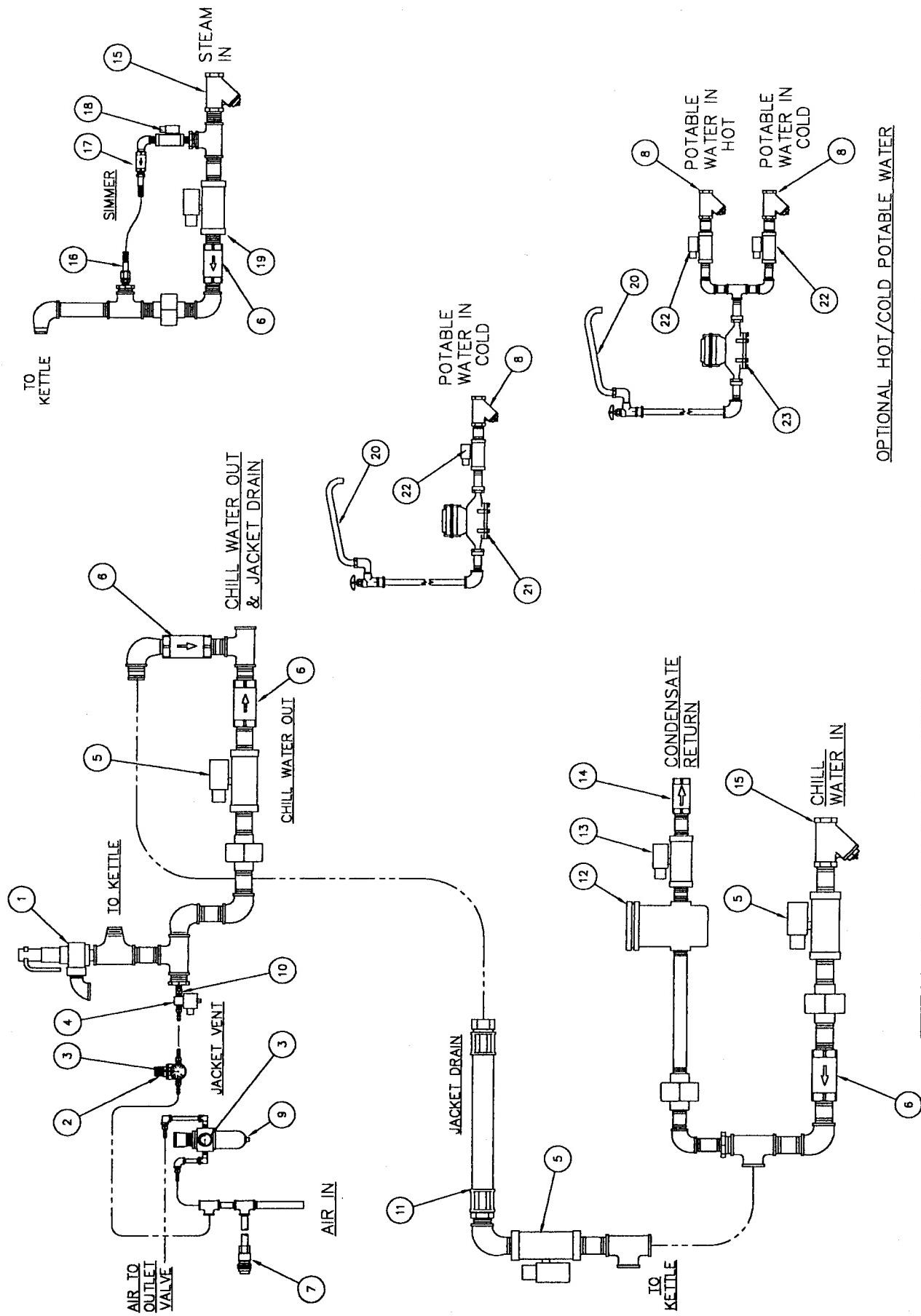
A	#12 WAS PERIOD-5000001 ADD SWING SPOUT TO #18	JES	checked by:	6-29-01	PRINT NAME:	D	PRINT NUMBER:
REV.	DESCRIPTION	BY DATE	ARMED BY	SCALE: NONE	RECEIVED BY	REC'D BY	RECEIVED BY

J.C.PARDO & SONS INC.	checked by:	6-29-01	PRINT NAME:	D	PRINT NUMBER:
1250 REAMES RD. BALTIMORE MD. 21220 PHONE (410) 391-3800 FAX (410) 391-3800	ARMED BY	SCALE: NONE	RECEIVED BY	REC'D BY	RECEIVED BY
REVISIONS	REVISIONS	REVISIONS	REVISIONS	REVISIONS	REVISIONS

HANK-DL-150-200-T PLUMBING W/DNN
 CONNECTORS REPLACEMENT PARTS

The foregoing is not intended to be a complete listing of all parts required for the assembly of the equipment. It is the responsibility of the customer to determine what other parts may be required to complete the assembly. It is the responsibility of the customer to return any parts which are not required or which do not fit. The manufacturer reserves the right to change part numbers at any time without notice or obligation.

A 2 of 2



J.C. PARDO & SONS INC.
1250 REAMERS RD. BALTO MD. 21220
PHONE (410) 381-3600 FAX (410) 381-9042

REV.	DESCRIPTION	BY	DATE
	REVISIONS		

ITEM NUMBER	DESCRIPTION	QTY	UNIT
C 11658	MKD1-300-CC PLUMBING W/DINN CONNECTORS REPLACEMENT PARTS	1	SET
1 of 2			

REPLACEMENT PARTS LIST

ITEM	PART NO.	DESCRIPTION
1	VAR01-2500001	100 PSI SAFETY VALVE
2	AR800-3700002	MINI AIR REGULATOR
3	AR800-2500004	REPLACEMENT GAUGE
4	ELB00-2500013	JACKET VENT SOLENOID
-	ELP00-0000000	REPLACEMENT DINN CONN. FOR ITEM #4
-	SP999-9900064	REPLACEMENT KIT FOR ITEM #4
-	SP998-8800002	REPLACEMENT COIL FOR ITEM #4
5	ELB01-5000006	CHILL WATER IN/OUT & JACKET DRAIN SOL.
-	ELP00-0000000	REPLACEMENT DINN CONN. FOR ITEM #5
-	SP999-9900014	REPLACEMENT KIT FOR ITEM #5
-	SP998-8800002	REPLACEMENT COIL FOR ITEM #5
6	MSB01-5000004	BALL CONE CHECK VALVE
7	AR800-5000001	AIR QUICK DISCONNECT
8	MSB00-7500001	50 MESH STRAINER
-	MSB00-7500006	REPLACEMENT SCREEN FOR ITEM #8
9	AR800-2500015	AIR REGULATOR
10	VAR00-2500001	NO LEAK CHECK VALVE
11	PBD01-5000006	JACKET DRAIN HOSE
12	MSC00-7500007	STEAM TRAP
-	SP999-9900018	REPAIR KIT FOR ITEM #12
13	ELB01-0000014	CONDENSATE SOLENOID
-	ELP00-0000000	REPLACEMENT DINN CONN. FOR ITEM #13
-	SP999-9900008	REPLACEMENT KIT FOR ITEM #13
-	SP998-8800003	REPLACEMENT COIL FOR ITEM #13

REPLACEMENT PARTS LIST

ITEM	PART NO.	DESCRIPTION
14	MSB01-0000003	BALL CONE CHECK VALVE
15	MSB01-5000001	50 MESH STRAINER
-	MSB01-5000003	REPLACEMENT SCREEN FOR ITEM #15
16	PBF00-7500001	SIMMER FLEX LINE
17	MSB00-7500005	BALL CONE CHECK VALVE
18	ELB00-7500016	SIMMER SOLENOID
-	ELP00-0000000	REPLACEMENT DINN CONN. FOR ITEM #18
-	SP999-9900007	REPLACEMENT KIT FOR ITEM #18
-	SP988-8800003	REPLACEMENT COIL FOR ITEM #18
19	ELB01-5000007	STEAM IN SOLENOID
-	ELP00-0000000	REPLACEMENT DINN CONN. FOR ITEM #19
-	SP999-9900013	REPLACEMENT KIT FOR ITEM #19
-	SP988-8800003	REPLACEMENT COIL FOR ITEM #19
20	PBB00-7500018	FILL FAUCET
21	ELB00-7500017	DIGITAL COLD WATER METER
22	ELB00-7500015	POTABLE WATER IN SOLENOID
-	ELP00-0000000	REPLACEMENT DINN CONN. FOR ITEM #22
-	SP999-9900004	REPLACEMENT KIT FOR SOLENOID #22
-	SP988-8800002	REPLACEMENT COIL FOR SOLENOID #22
23	ELB00-7500018	DIGITAL HOT WATER METER (OPTIONAL)

J.C.PARDO & SONS INC.

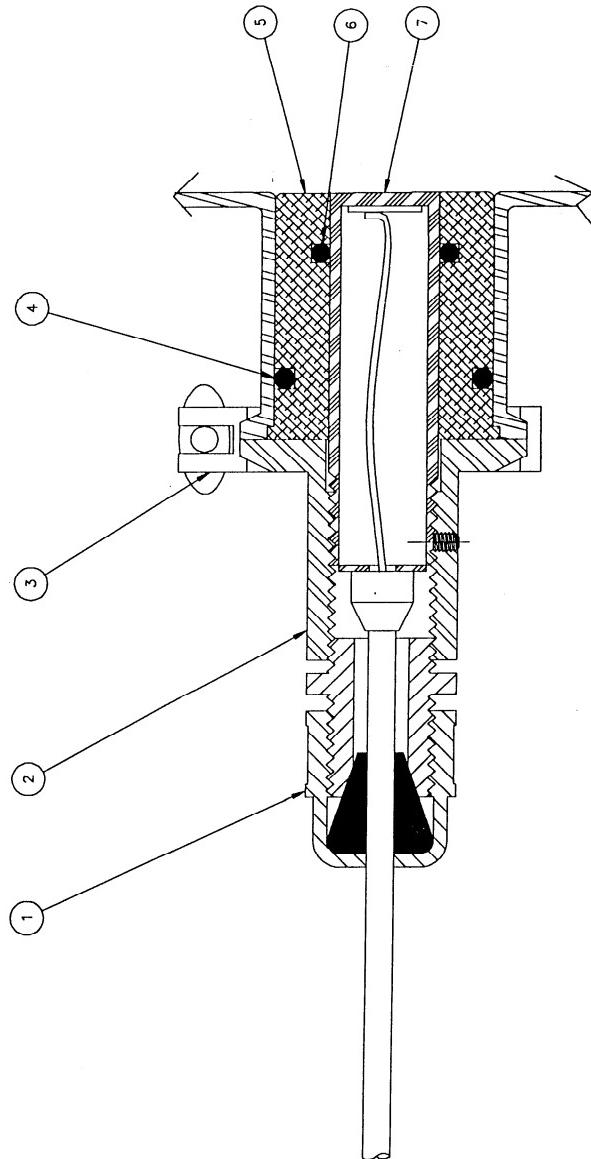
 1260 REAMES RD. **P** BALTO MD. 21220
 PHONE (410) 391-3800 FAX (410) 391-3042

REV.	DESCRIPTION	BY	DATE
	REVISIONS		

MKDL-300-CC PLUMBING W/DINN
 CONNECTORS REPLACEMENT PARTS
 C 11658
 REV. 4/1/02
 APPROVED BY
 SP988-8800003
 2 of 2

REPLACEMENT PARTS

ITEM	PART NO.	DESCRIPTION
1	ELCO0-0000011	WIRE RESTRAINT
2	TSENSOR00001	CAP ASSEMBLY
3	DFSL2-000002	2 TRI CLAMP
4	SESPRING00004	OUTER O-RING
5	SSENSOR00001	SEAL RETAINER
6	SESPRING00005	INNER O-RING
7	TSENSOR00002	TEMPERATURE SENSOR

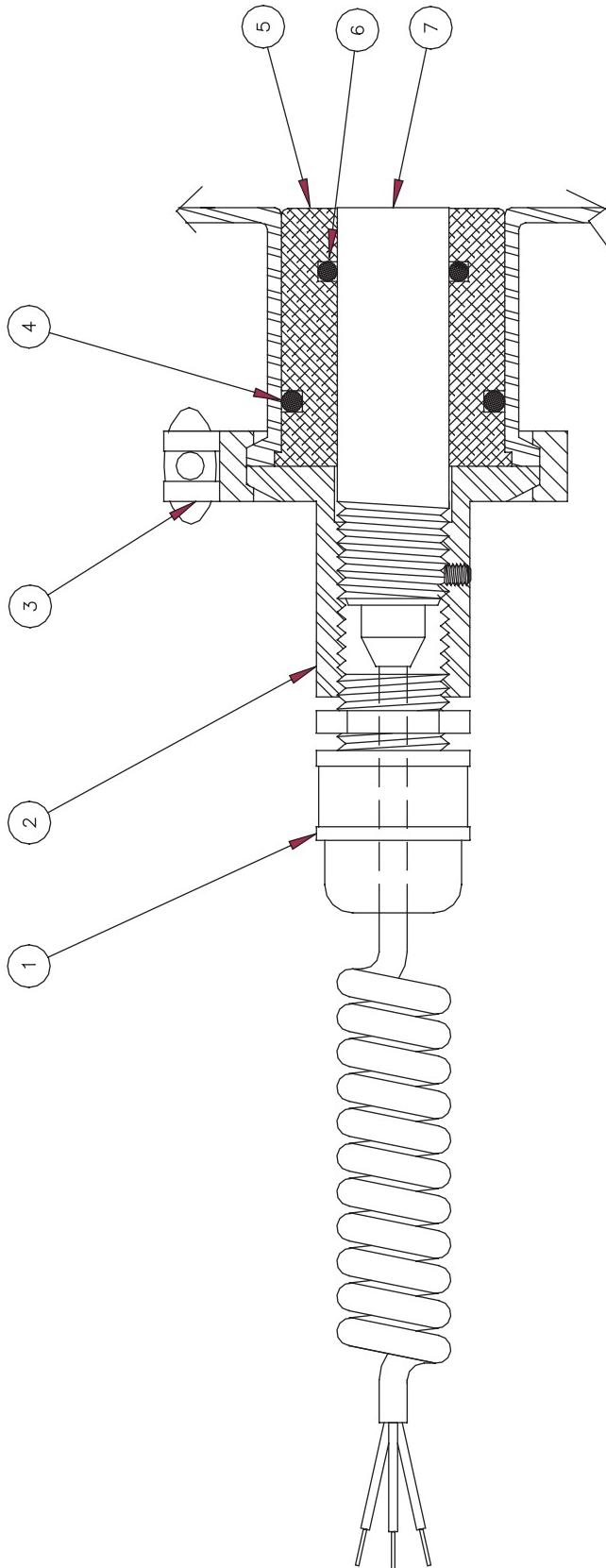


J.C.PARDO & SONS INC.	
1250 REAMES RD.	
BALTO. MD. 21220	
DRAWN BY:	
DATE: 9-15-94	
SCALE: NONE	
PART NO: 111-1111-1111	
REV: A	
REDR. FROM: B-8413	
TJK: 9/15/94	
BY: DATE	
DESCRIPTION: TEMPERATURE SENSOR WITH RTD SENSOR	
REV: C	
SHEET 1 OF 1	
110-5Q	
REV: A	

REVISIONS

REPLACEMENT PARTS

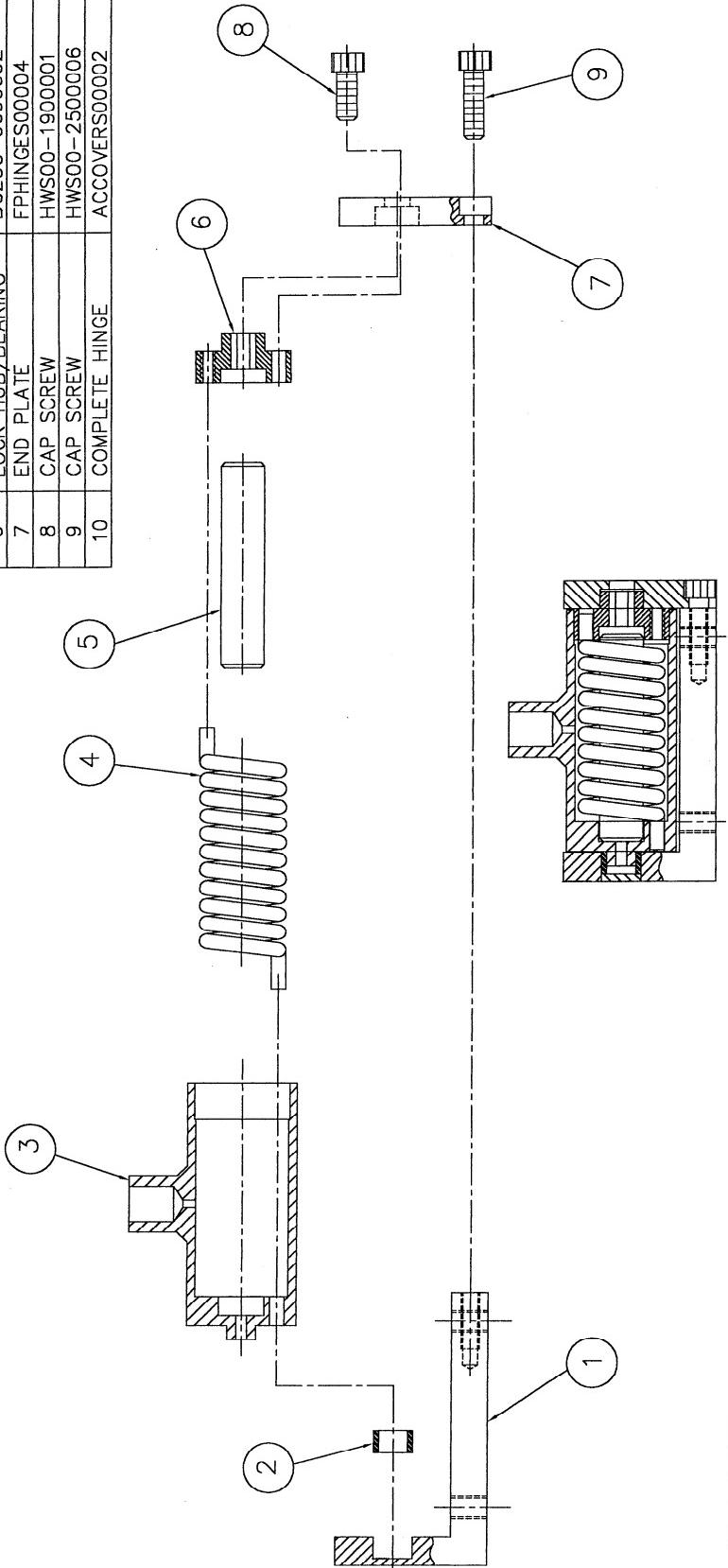
REPLACEMENT PARTS		DESCRIPTION
ITEM	PART NO.	
1	ELCO0-0000011	WIRE RESTRAINT
2	TSSENSOR00001	CAP ASSEMBLY
3	DFS02-0000002	2" TRI CLAMP
4	SE30RING00004	OUTER O-RING
5	SRSENSOR00001	SEAL RETAINER
6	SE30RING00005	INNER O-RING
7	TSSENSOR00007	TEMPERATURE SENSOR



J. C. PARDO & SONS INC.
1250 REAMES RD. BALTO MD. 21220
TELE 662-2200 FAX 662-2201

J.C.PARDO & SONS INC.				REVISIONS	REV.	DESCRIPTION	BY	DATE
	1250 RIMES RD. PHONE (410) 381-3600		BALTO MD.	21220	FAX (410) 381-9042			
	TEMPERATURE SENSOR W/RETRACTABLE CABLE REPLACEMENT PARTS				CHECKED BY:	DRAWN BY:	DRAWING NUMBER: 11077	
					DATE 2/13/95	APPROVED BY:	SHEET	REV.
						SCALE: NONE	1	of 1
					The drawing and all information contained therein is the property of J.C.Pardo & Sons Inc., Balto MD. The drawing and all information contained therein is the property of J.C.Pardo & Sons Inc., Balto MD. It must not be made public or copied, in whole or in part, without written permission from J.C.Pardo & Sons Inc., Balto MD.			

ITEM	DESCRIPTION	PART NO.
1	HINGE BASE	FPHINGES00002
2	BRONZE BEARING	BGZ00-0000001
3	HINGE BODY	FPHINGES00001
4	SPRING	MSSPRING00004
5	CENTERING ROD	FPHINGES00003
6	LOCK HUB/BEARING	BGZ00-0000002
7	END PLATE	FPHINGES00004
8	CAP SCREW	HWS00-19000001
9	CAP SCREW	HWS00-25000006
10	COMPLETE HINGE	ACCOVERS00002



A REV.	REDRAWN IN ACAD DESCRIPTION	SME 4/24/00 BY DATE
REVISIONS		

J.C.PARDO & SONS INC.
APPROVED BY:
CHECKED BY:

(10) HINGE ASSY.

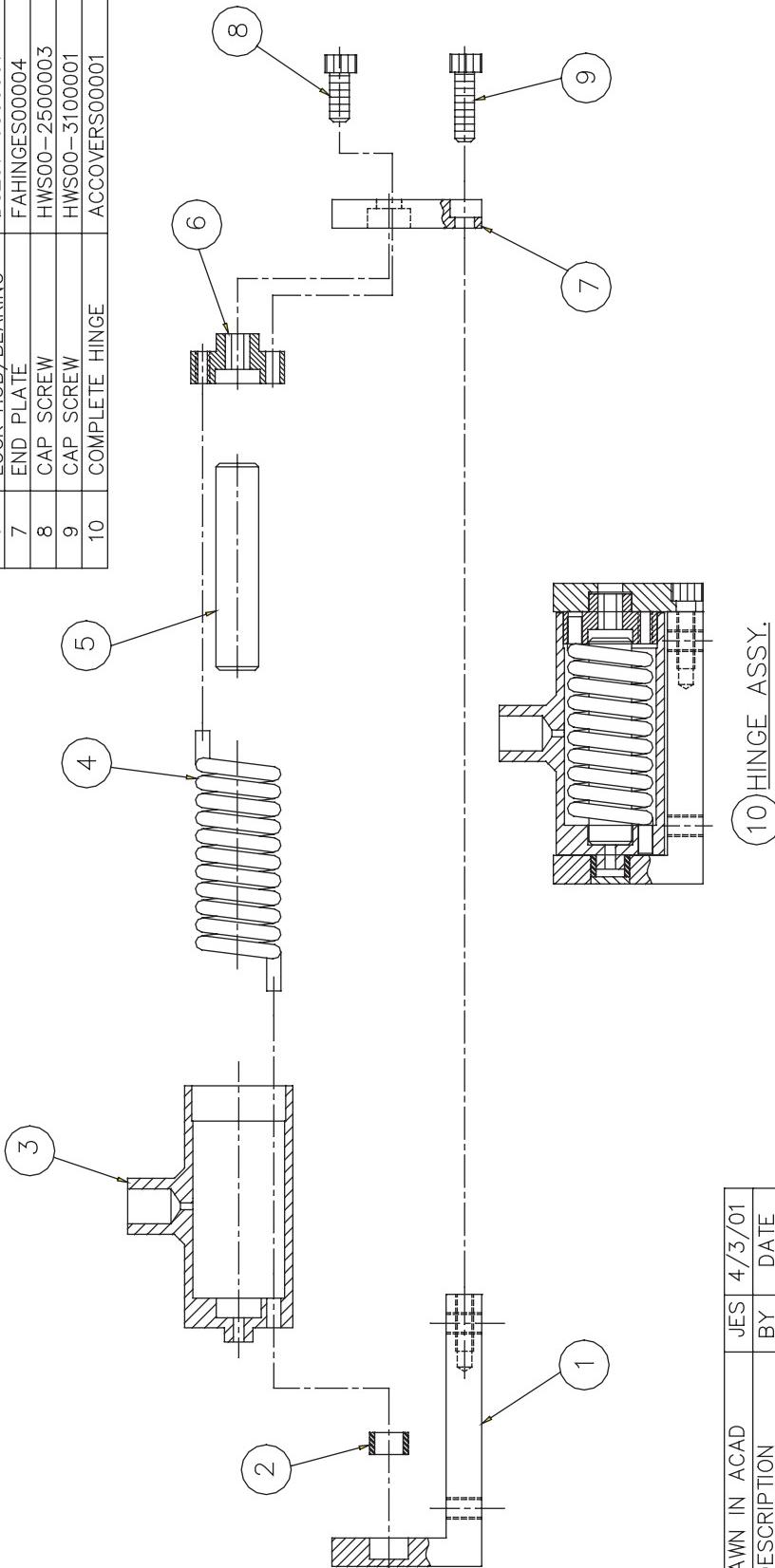
JOB#:	QTY:	DRAWING NUMBER:
		8539

SIZE: B	SIZE: A
SHEET	1 of 1
REV.	

HINGE / ACTUATOR ASSEMBLY &
REPLACEMENT PARTS DETAIL

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therein is confidential and must not be made public or copied.
It is loaned subject to return upon demand and is not to be used
directly or indirectly in any way detrimental to J.C.Pardo & Sons.

ITEM	DESCRIPTION	PART NO.
1	HINGE BASE	FAHINGES000001
2	BRONZE BEARING	BGZ00-75000001
3	HINGE BODY	FAHINGES000002
4	SPRING	MSSPRING000001
5	CENTERING ROD	FAHINGES000003
6	LOCK HUB/BEARING	BGZ01-65000001
7	END PLATE	FAHINGES000004
8	CAP SCREW	HWS00-25000003
9	CAP SCREW	HWS00-31000001
10	COMPLETE HINGE	ACCOVERS000001



A REV.	REDRAWN IN ACAD DESCRIPTION	JES BY DATE
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REVISIONS

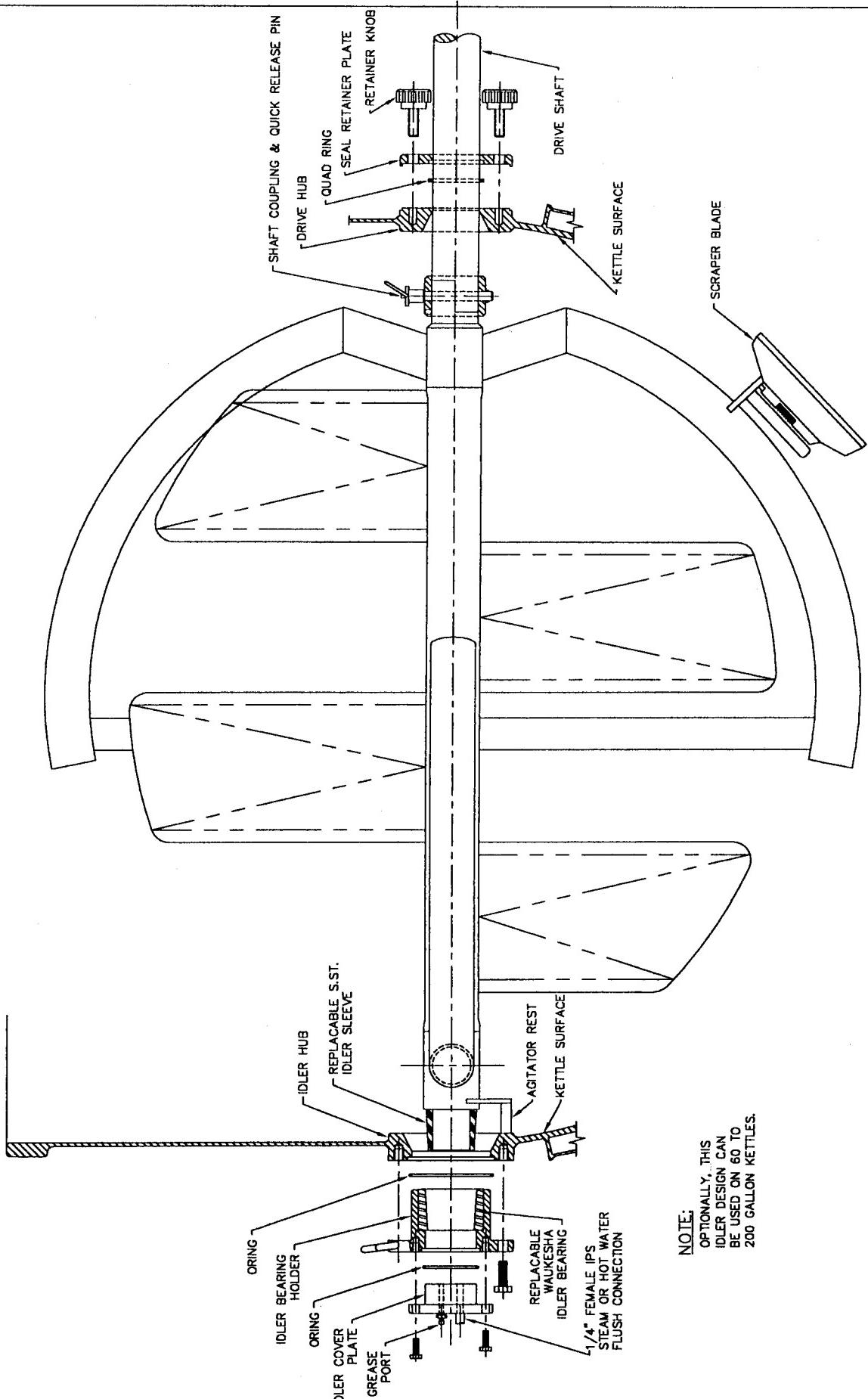
J.C.PARDO & SONS INC. 1250 REAMES RD. PHONE (410) 391-3600	CHECKED BY: APPROVED BY: SCALE:NONE	DRAWN BY: JES DATE: 7-30-93	150-200 GAL HINGE/ACTUATOR REPLACEMENT PARTS	SHEET: B REV. A DRAWING NUMBER: 8415 SHEET 1 OF 1
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J.C.PARDO & SONS INC. 1250 REAMES RD. PHONE (410) 391-3600	CHECKED BY: APPROVED BY: SCALE:NONE	DRAWN BY: JES DATE: 7-30-93	150-200 GAL HINGE/ACTUATOR REPLACEMENT PARTS	SHEET: B REV. A DRAWING NUMBER: 8415 SHEET 1 OF 1
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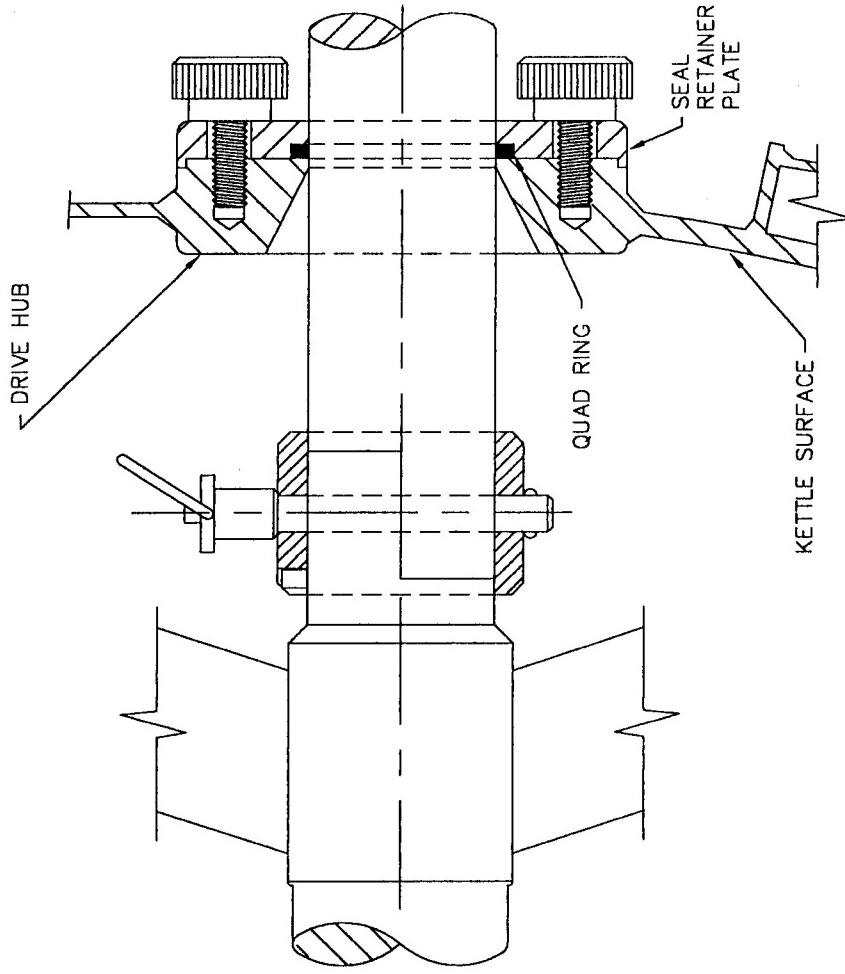
J.C.PARDO & SONS INC. 1250 REAMES RD. PHONE (410) 391-3600	CHECKED BY: APPROVED BY: SCALE:NONE	DRAWN BY: JES DATE: 7-30-93	150-200 GAL HINGE/ACTUATOR REPLACEMENT PARTS	SHEET: B REV. A DRAWING NUMBER: 8415 SHEET 1 OF 1
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J.C.PARDO & SONS INC. 1250 REAMES RD. PHONE (410) 391-3600	CHECKED BY: APPROVED BY: SCALE:NONE	DRAWN BY: JES DATE: 7-30-93	150-200 GAL HINGE/ACTUATOR REPLACEMENT PARTS	SHEET: B REV. A DRAWING NUMBER: 8415 SHEET 1 OF 1
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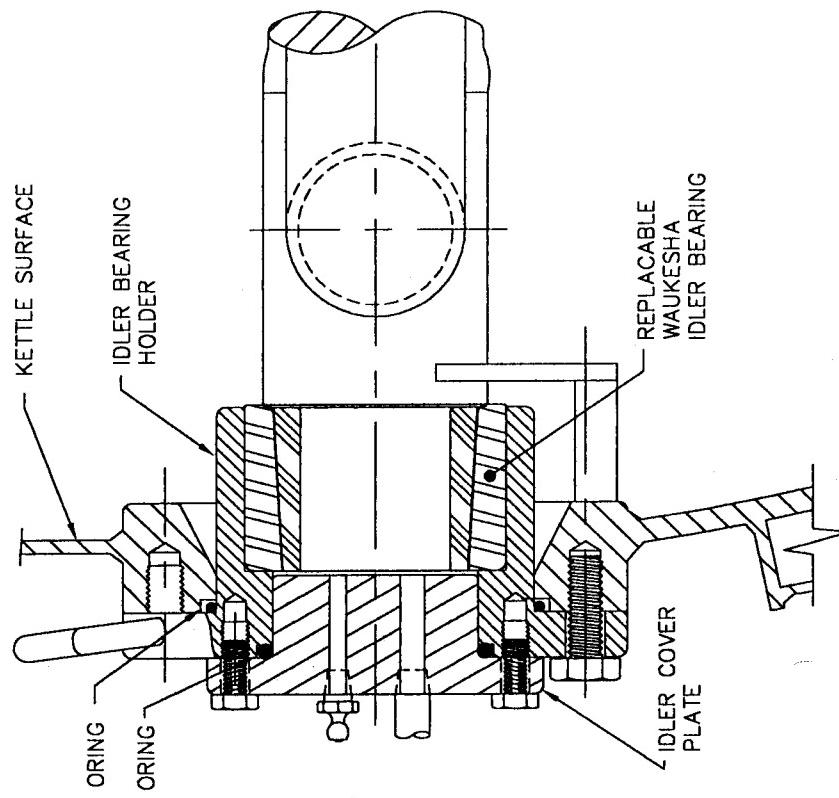
J.C.PARDO & SONS INC. 1250 REAMES RD. PHONE (410) 391-3600	CHECKED BY: APPROVED BY: SCALE:NONE	DRAWN BY: JES DATE: 7-30-93	150-200 GAL HINGE/ACTUATOR REPLACEMENT PARTS	SHEET: B REV. A DRAWING NUMBER: 8415 SHEET 1 OF 1
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REV.	DESCRIPTION	BY	DATE	APPROVED BY	DATE	CHANGED BY	DATE
	J.C.PARDO & SONS INC. 1250 REAMES RD. PHONE (410) 361-3600	JAY S.	9/21/00	C	8/990		1 of 2



DRIVE END

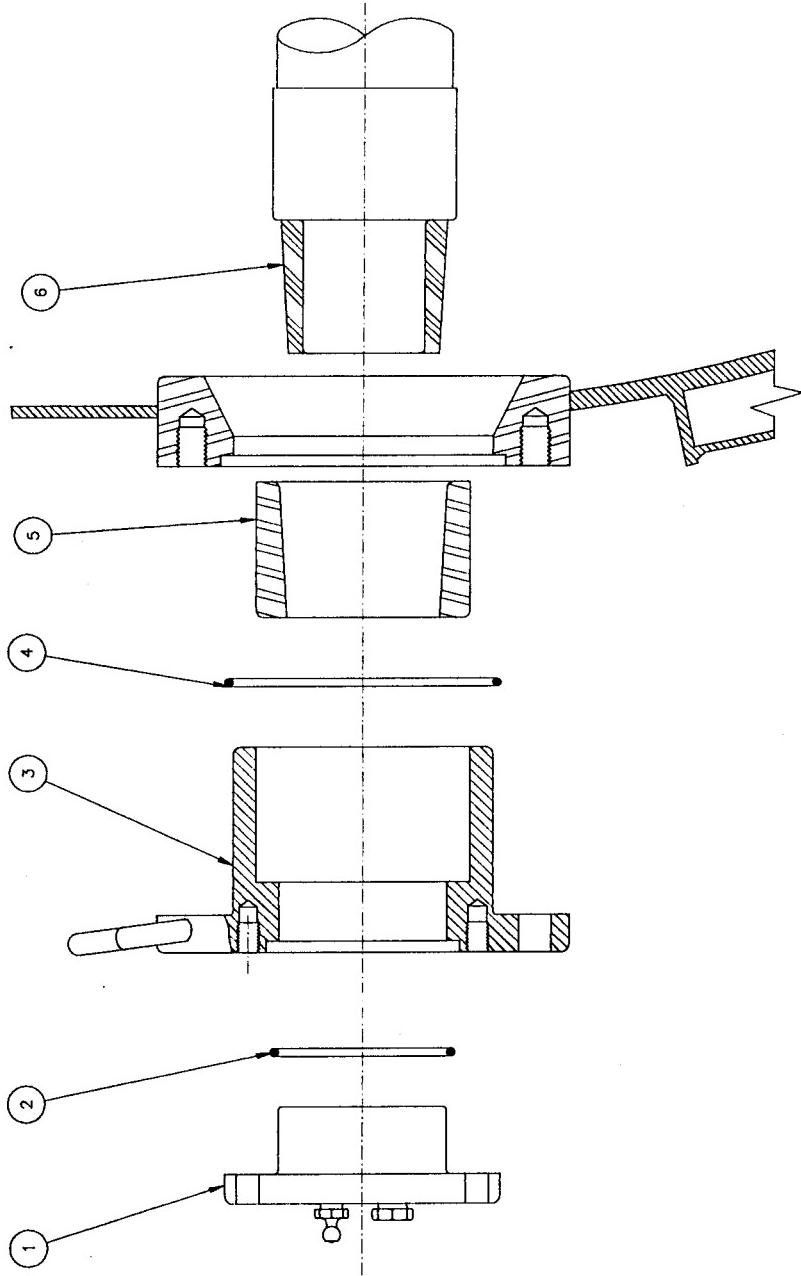


IDLER END

J.C.PARDO & SONS INC.		DRAWN BY: SE	CHECKED BY:	SIZE: B	DRAWING NUMBER: 8990
BALTO MD. 21220 PHONE (410) 391-3600	FAX (410) 391-8042	DATE: 9/21/00	APPROVED BY:	REV. C	SHEET 2 of 2
1250 REAMES RD.		Information contained therein is the property of J.C.Pardo & Sons, Inc. Both MD. drawings and all information contained therein is the property of J.C.Pardo & Sons, Inc. and may not be made public or copied or reproduced in whole or in part. It is to be used directly or indirectly in any way detrimental to J.C.Pardo & Sons.		Copyright © 2000 by J.C.Pardo & Sons, Inc. All rights reserved.	

REPLACEMENT PARTS

ITEM	PART NO.	DESCRIPTION
1	1FS04-5000001	COVER PLATE
2	SE30RING00016	O-RING
3	1FS07-0000001	IDLER END BEARING HOLDER
4	SE30RING00017	O-RING
5	1FK03-5000001	IDLER END BEARING
6	1FS02-75000007	IDLER END SLEEVE

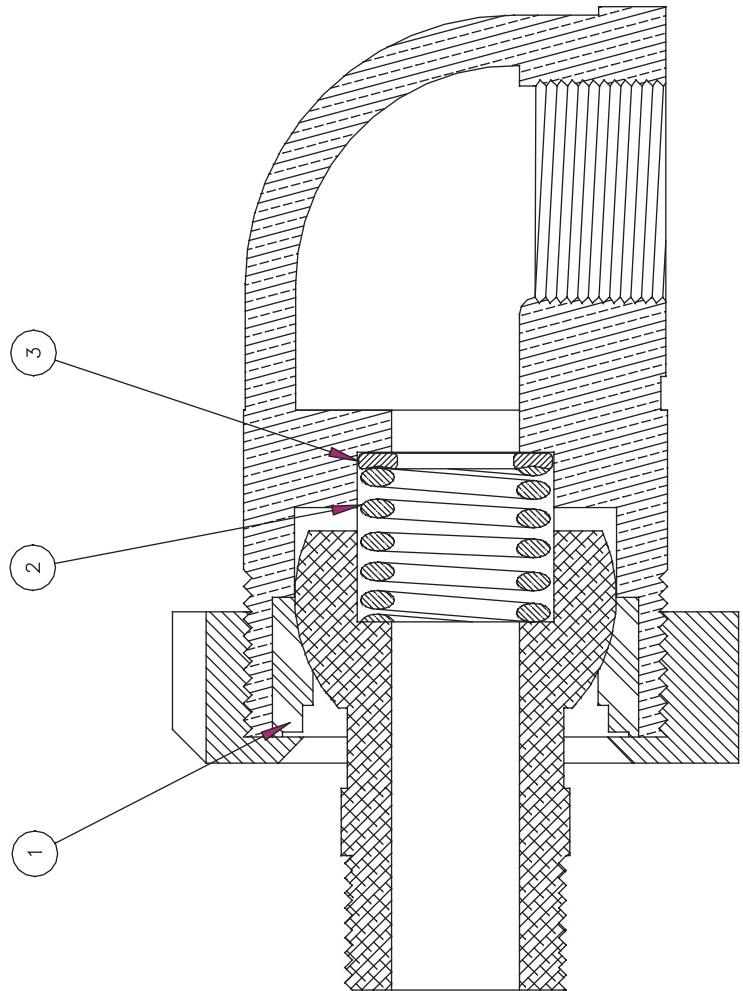


300 GALLON IDLER END		DRAWING NUMBER
REPLACEMENT PARTS		C
The drawings and all related information contained herein is the property of J.C. Pardo & Sons Inc. It is confidential and must not be copied, transmitted to third parties, or used for any purpose other than the original intended purpose without the express written consent of J.C. Pardo & Sons Inc.		
REV.	DATE	REV.
DESCRIPTION	BY	11221
REVISIONS		SHEET
		1 of 1

ITEM	NUMBER	REV.
1	1FS04-5000001	1
2	SE30RING00016	2
3	1FS07-0000001	3
4	SE30RING00017	4
5	1FK03-5000001	5
6	1FS02-75000007	6

REV.	DESCRIPTION	BY	DATE

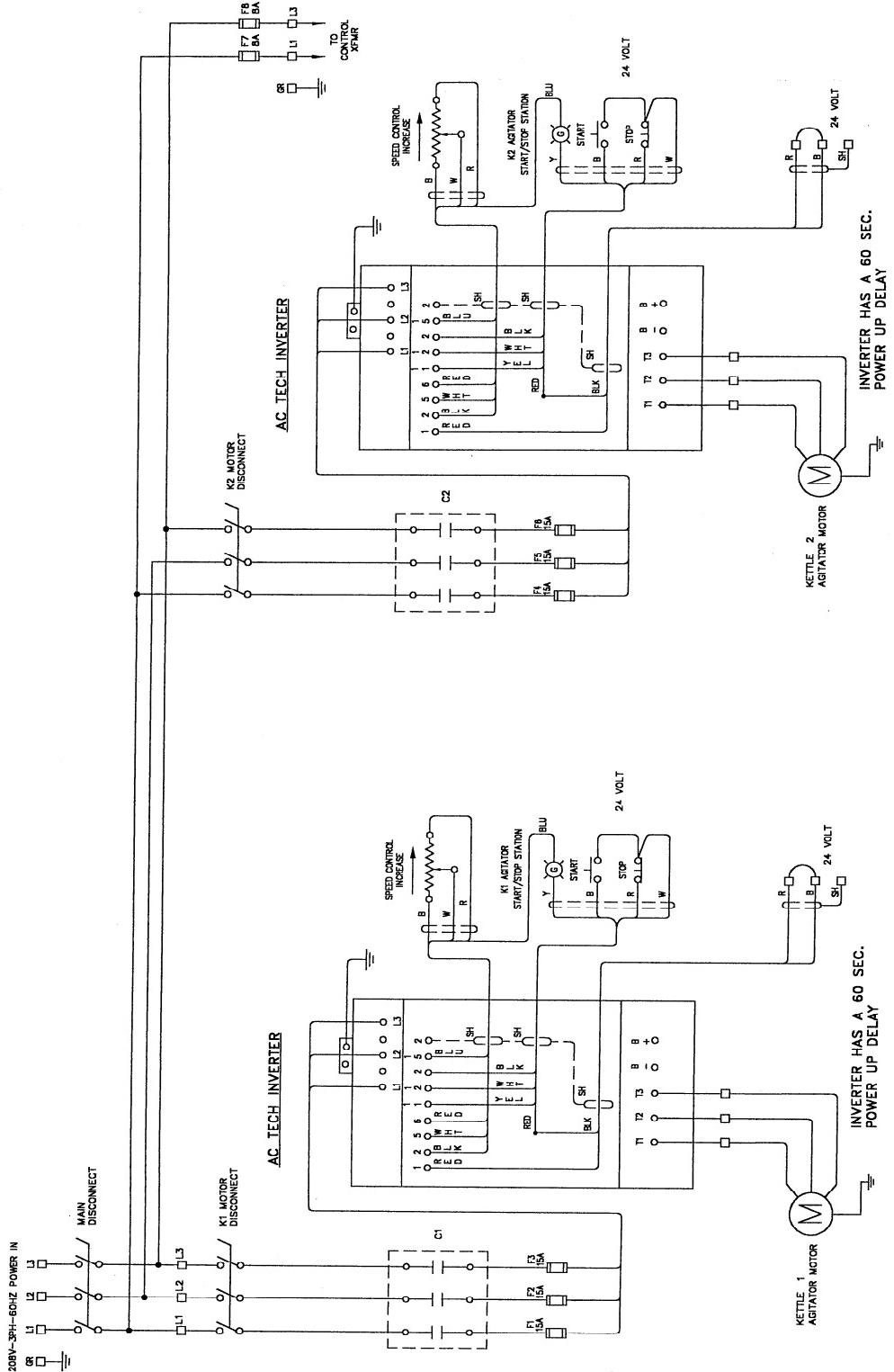
REPLACEMENT PARTS LIST	
ITEM	PART NO.
1	SETSEALS00002
2	MSSPRING00006
3	MSSPRING00011
4	MSC01-2500001
	1 1/4" BARCO JOINT



④ COMPLETE UNIT

J.C.PARDO & SONS INC.			CHEMED BY	DRAWN BY JES	1 1/4" NPT BARCO JOINT	SIZE C	DRAWING NUMBER 11079
1250 REAMES RD. BALTO MD. 21220 PHONE (410) 391-3800 			APPROVED BY	DATE 2/20/95	REVISIONS	REV. C	SEET
				SCALE NONE			
REV.	DESCRIPTION	BY	DATE				
	REVISIONS						

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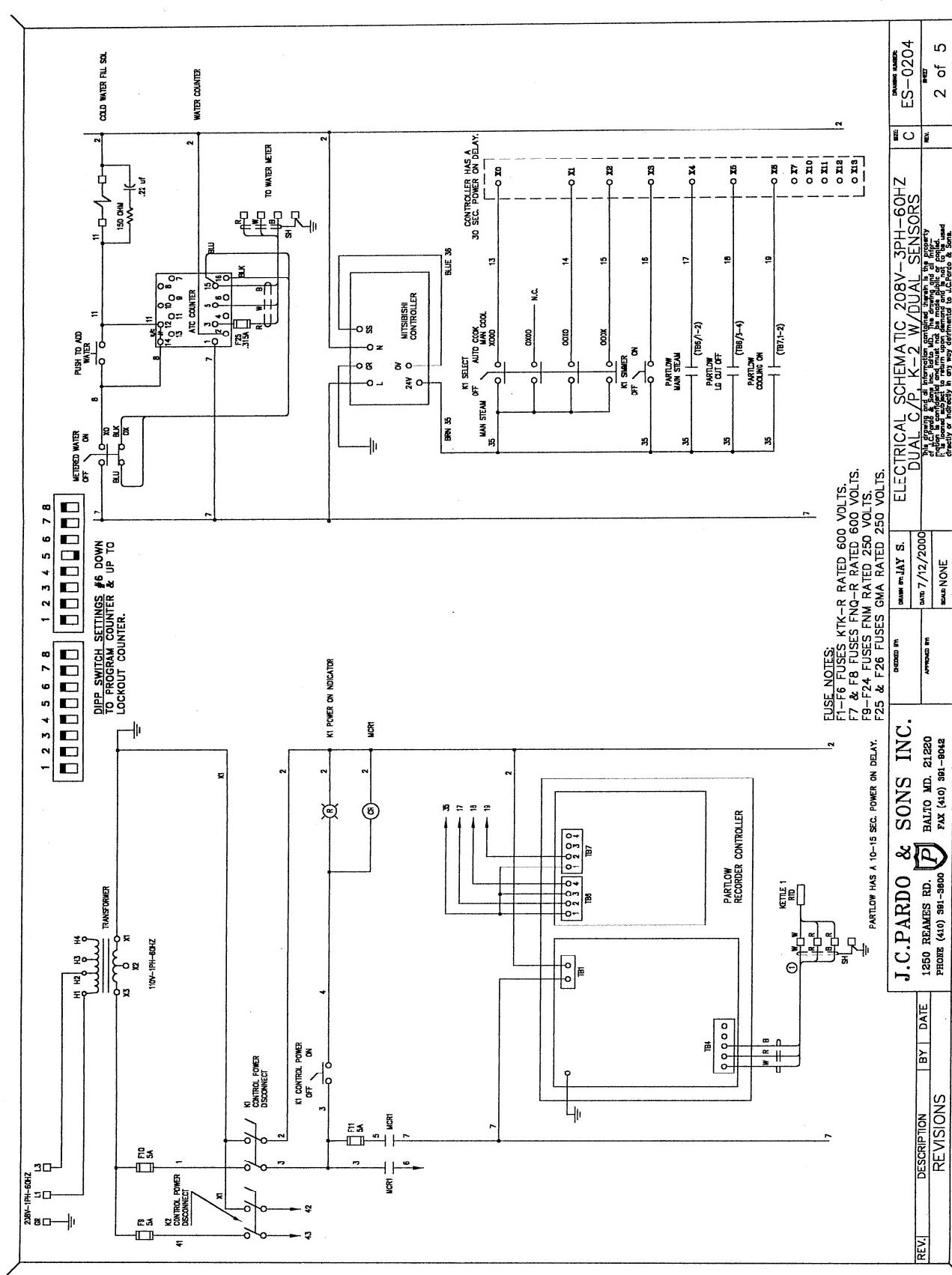


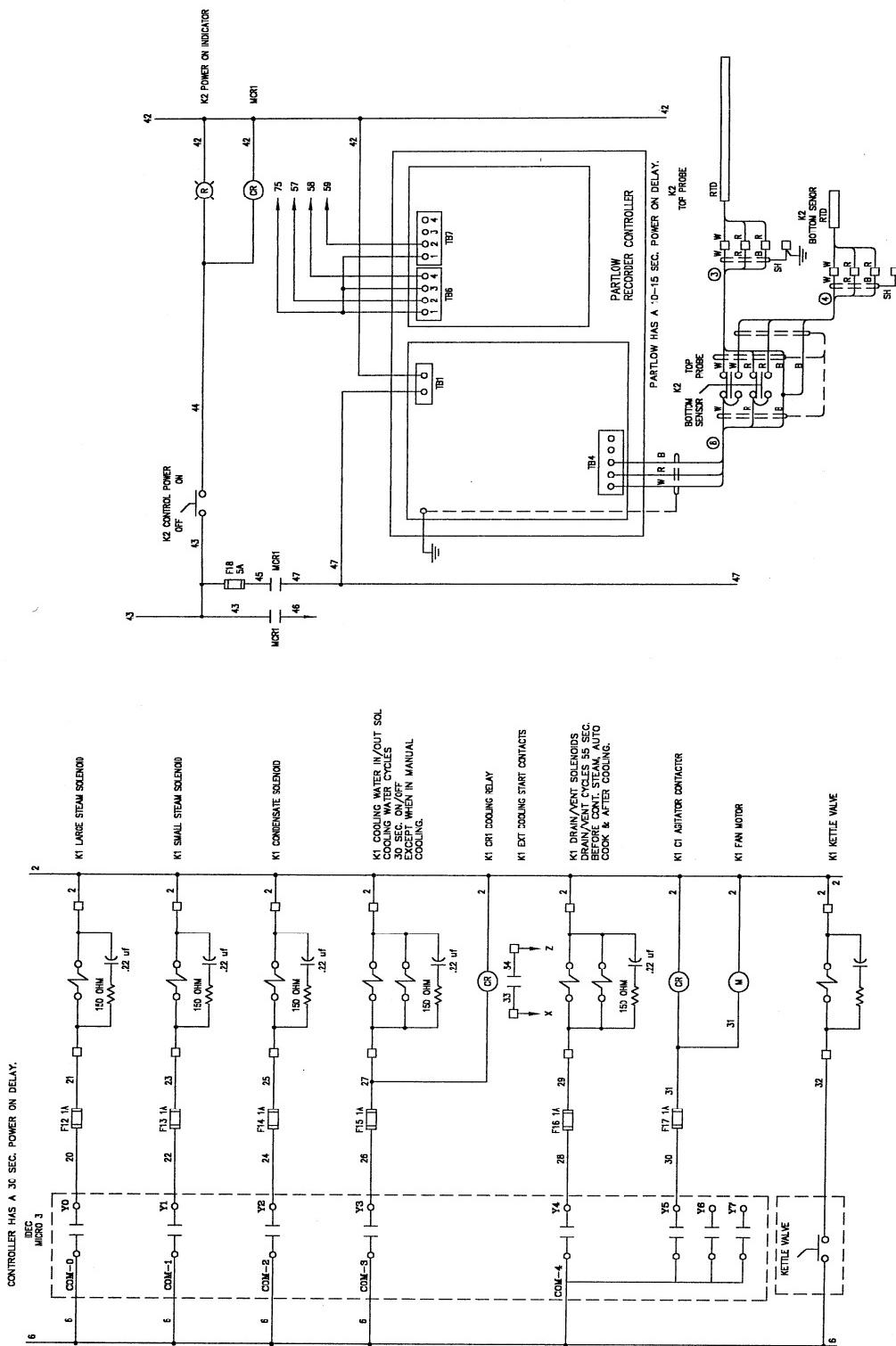
FUSE NOTES:
 F1-F6 FUSES KTK-R RATED 600 VOLTS.
 F7 & FB FUSES FNQ-R RATED 600 VOLTS.
 F9-F24 FUSES FNK RATED 250 VOLTS.
 F25 & F26 FUSES GMA RATED 250 VOLTS.

J.C.PARDO & SONS INC.		DRAWN BY JAY S.	APPROVED BY	REV. DATE	REV. DATE	REV. DATE
1260 REEDERS RD.	P	7/12/2000	None	7/12/2000	None	None
PHONE (410) 391-3600	FAX (410) 391-0042					
REVISIONS						

ELECTRICAL SCHEMATIC 208V-3PH-60HZ
 DUAL C/P K-2 W DUAL SENSORS

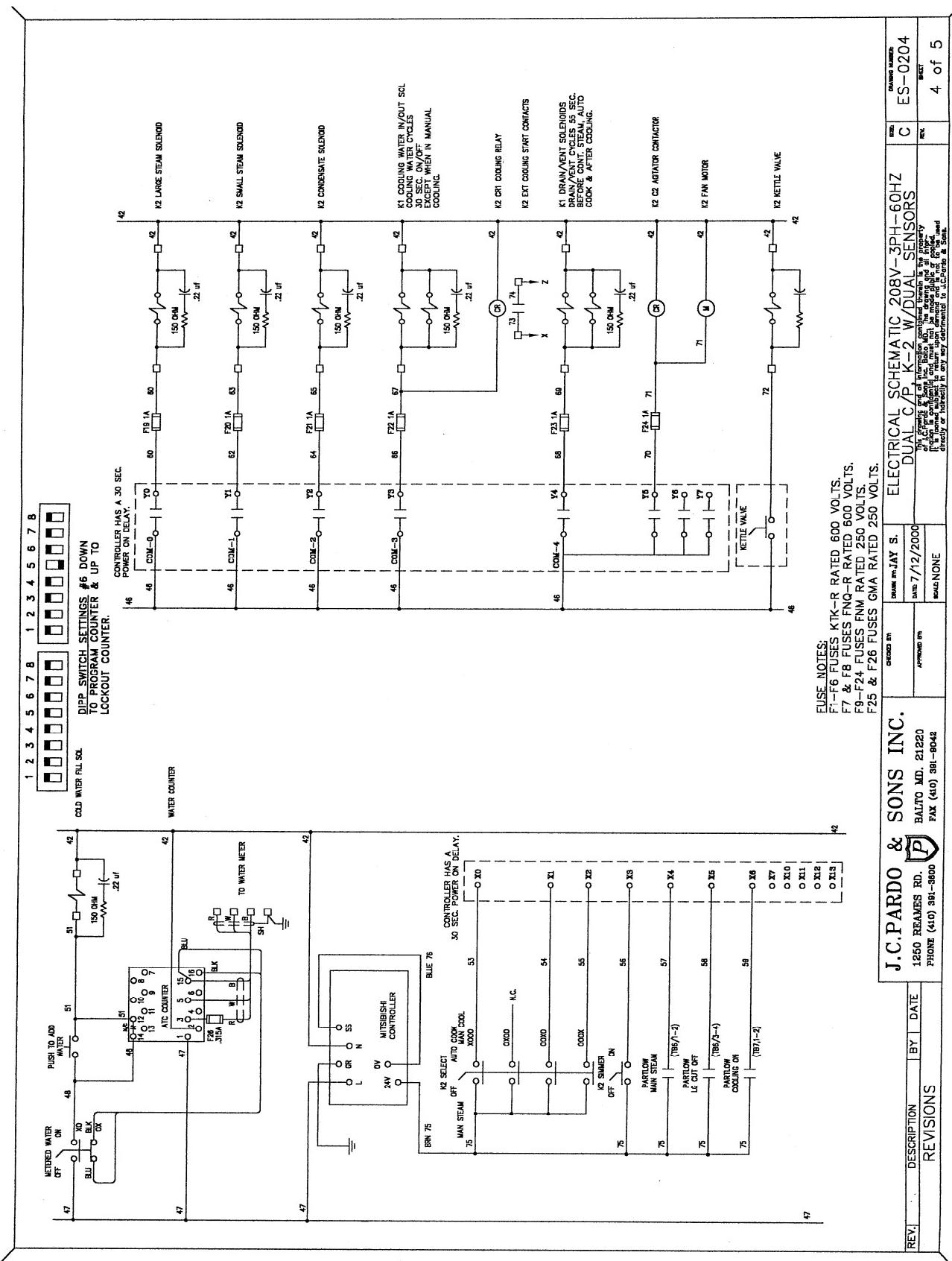
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SIZE:	24X36	INCHES
REV.:	1	5



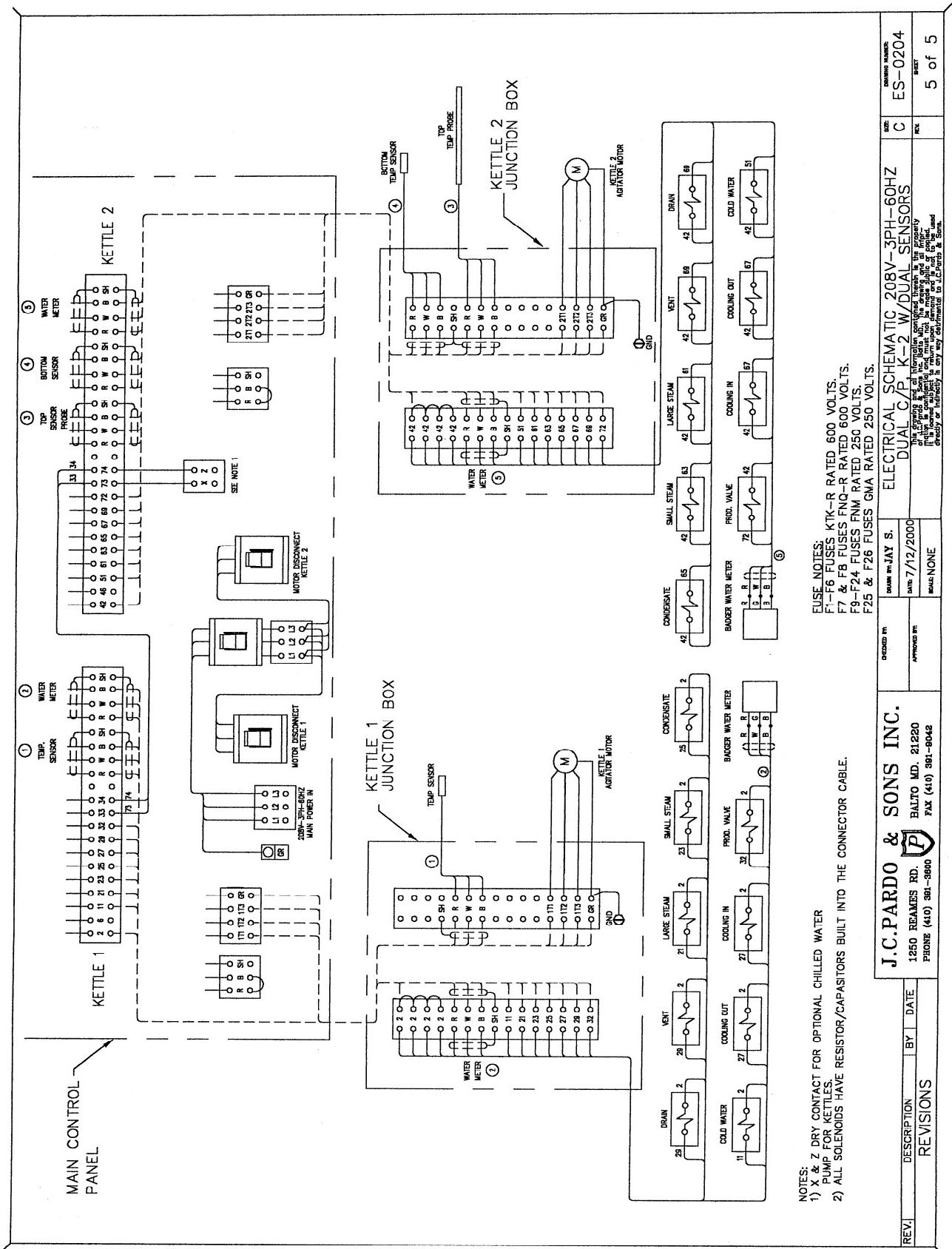


FUSE NOTES:
F1-F6 FUSES KTK-R RATED 600 VOLTS
F7 & FB FUSES FNQ-R RATED 600 VOLTS
F9-F24 FUSES FNW RATED 250 VOLTS.
F25 & F26 FUSES GWA RATED 250 VOLTS.

REV:		DESCRIPTION	BY	DATE
		REVISIONS		
J.C.PARDO & SONS INC.  1250 REAMES RD. BALTO MD. 21220 PHONE (410) 381-3800 FAX (410) 381-8042				
CHIEF ENGR	SIMON ETIAY S.	CHIEF ENGR	SIMON ETIAY S.	CHIEF ENGR
APPROVED BY		APPROVED BY		APPROVED BY
SCALE	NONE	SCALE	NONE	SCALE
ELECTRICAL SCHEMATIC 208V-3PH-60HZ DUAL C-K-2 W/DUAL SENSORS				
DATE	7/12/2000	DATE	7/12/2000	DATE
The drawings contained herein are the property of J.C. Pardo & Sons Inc. They are to be used only for the purpose intended by the owner and are not to be copied or distributed without written permission.				
<small>PRINTED ON: 07/12/2000</small>				



REV.	DESCRIPTION	BY	DATE	APPROVED BY	DATE	REVISIONS	DUAL C/P-K-2 W/DUAL SENSORS	C	ES-0204
	J.C.F. ANDU & SONS INC.  1250 REAMES RD. BALTO MD. 21220 PHONE (410) 381-3800 FAX (410) 381-9042		7/12/2000				CLINICAL AUTOMATIC ZOV-3PH-BULZ		REV. 4 of 5



NOTES:
1) X & PUMPS
2) ALL

- 1) A & Z DRY CONTACT FOR OPTIONAL CHILLED WATER PUMP FOR KETTLES.

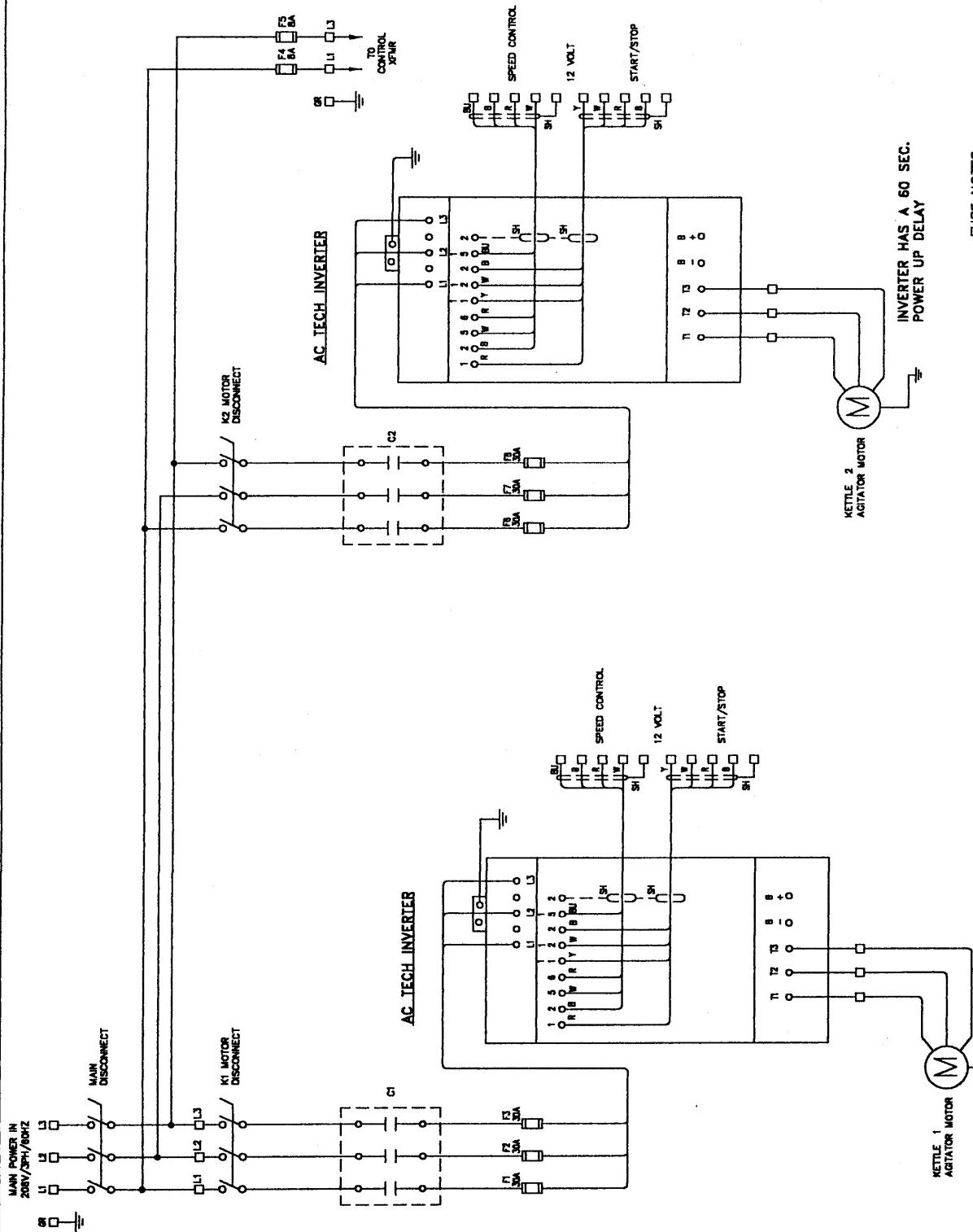
2) ALL SOLENOIDS HAVE RESISTOR/CAPACITORS BUILT IN

NOTES:

- 1) X & Z DRY CONTACT FOR OPTIONAL CHILLED WATER PUMP FOR KETTLES.
- 2) ALL SOLENOIDS HAVE RESISTOR/CAPACITORS BUILT INTO THE CONNECTOR CABLE.

FUSE NOTES:
 F1-F6 FUSES KTK-R RATED 600 VOLTS.
 F7 & FB FUSES FNQ-R RATED 600 VOLTS.
 F9-F24 FUSES FMN RATED 250 VOLTS.
 F25 & F26 FUSES GMA RATED 250 VOLTS.
 ELECTRICAL SCHEMATIC

J.C.PARDO & SONS INC.		REV.	DESCRIPTION	BY	DATE		DRAWING NUMBER:
 1250 REAMES RD. BALTIMORE MD. 21220 PHONE (410) 381-3800 FAX (410) 381-8042			REVISIONS		DATE 7/12/2000	ROLE NONE	ES-0204
		APPROVED BY:		APPROVED BY:		REV.	5 OF 5
		DESIGNED BY:		DESIGNED BY:		SHEET	
		DRAWN BY JAY S.		ELECTRICAL SCHEMATIC 208V-3PH-60HZ		C	
				DUAL C/P K-2 W/DUAL SENSORS			

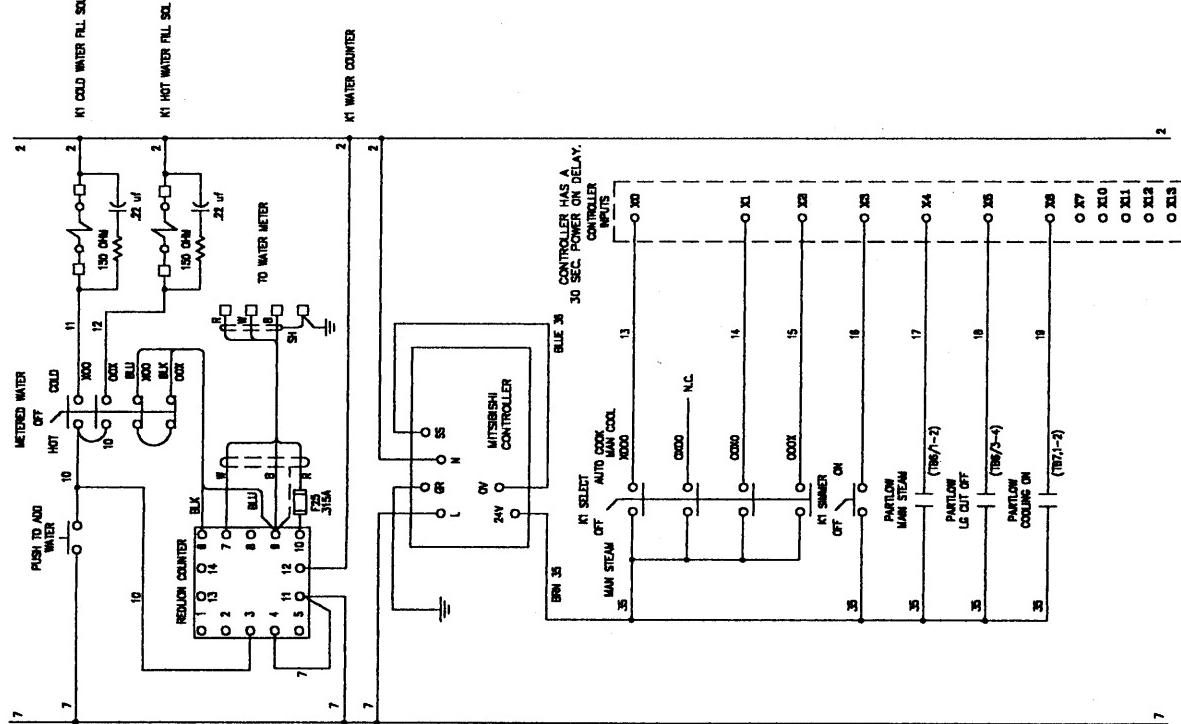


FUSE NOTES:
 F1-F3, FG-FB FUSES KTK-R RATED 600 VOLTS.
 F4, F5, FUSES FNQ-R RATED 600 VOLTS.
 F9-F24 FUSES FNW RATED 250 VOLTS.
 F25 & F26 FUSES GMA RATED 250 VOLTS.

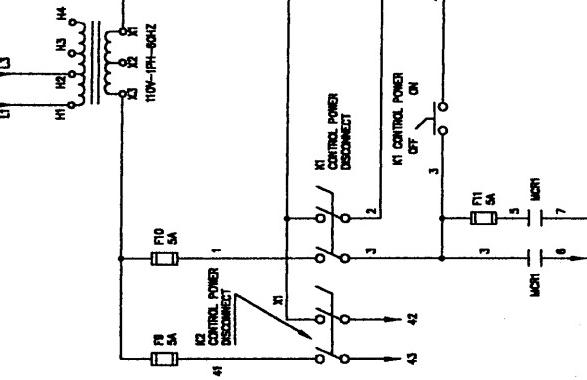
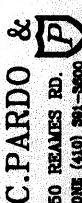
J.C. PARDO & SONS INC.
 1260 REAMES RD.
 PHONE (410) 391-3600 FAX (410) 391-0043

ELECTRICAL SCHEMATIC 208V SHP DUAL CONTROL PANEL HOT/COLD		C	ES-0301
REVISIONS	REV. A 460V SHP WAS 15 AMP JES 6/01 REV. DESCRIPTION BY DATE REVISIONS	DRAWN BY JES APPROVED BY REV. NONE	PRINTED BY REV. 1 of 5
		DRAWN 1/28/02 APPROVED 1/28/02	PRINTED 1/28/02

REDLION WATER COUNTER DIP SWITCH SETTINGS

DIP SWITCH #7 DOWN TO PROGRAM,
COUNTER & UP TO LOCKOUT COUNTER.

208V-1PH-60HZ

**J.C. PARDI & SONS INC.**1250 REAMES RD.
BALTIMORE MD. 21220
PHONE (410) 381-3800
TAX (410) 381-9043

ELECTRICAL SCHEMATIC 208V 5HP DUAL CONTROL PANEL HOT/COLD

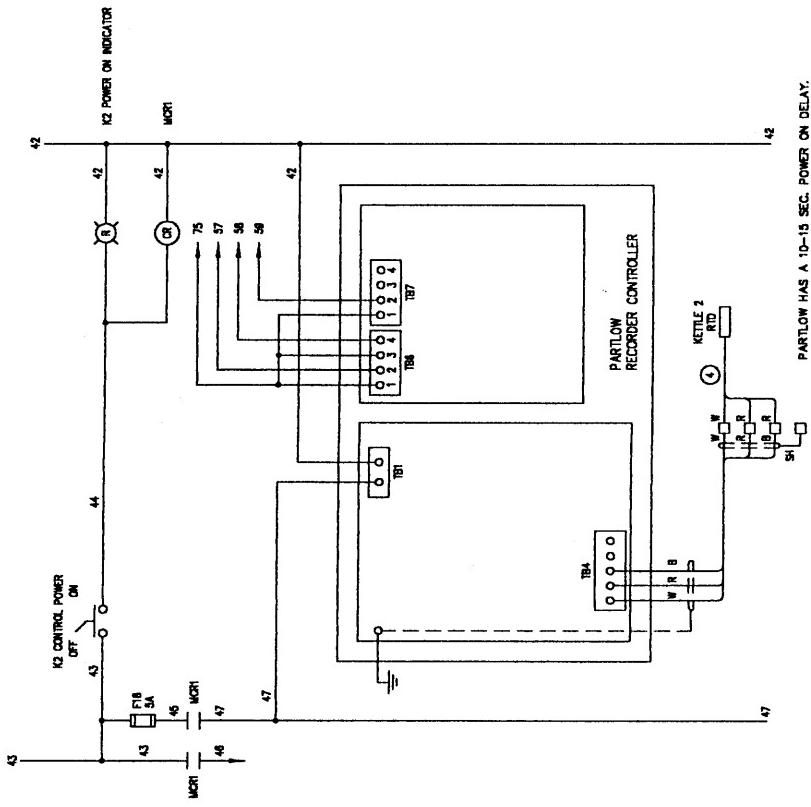
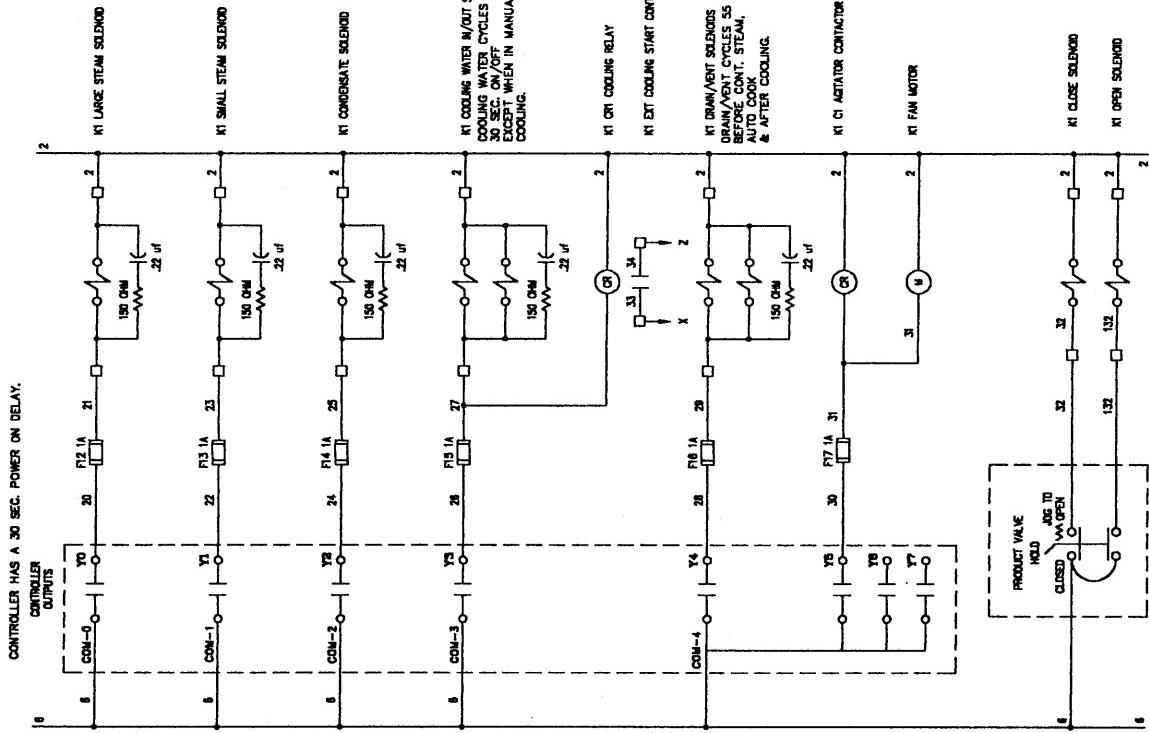
C ES-0301

REV.	DESCRIPTION	BY	DATE
	REVISIONS		
			1/28/02

REVISIONS

C ES-0301

2 of 5

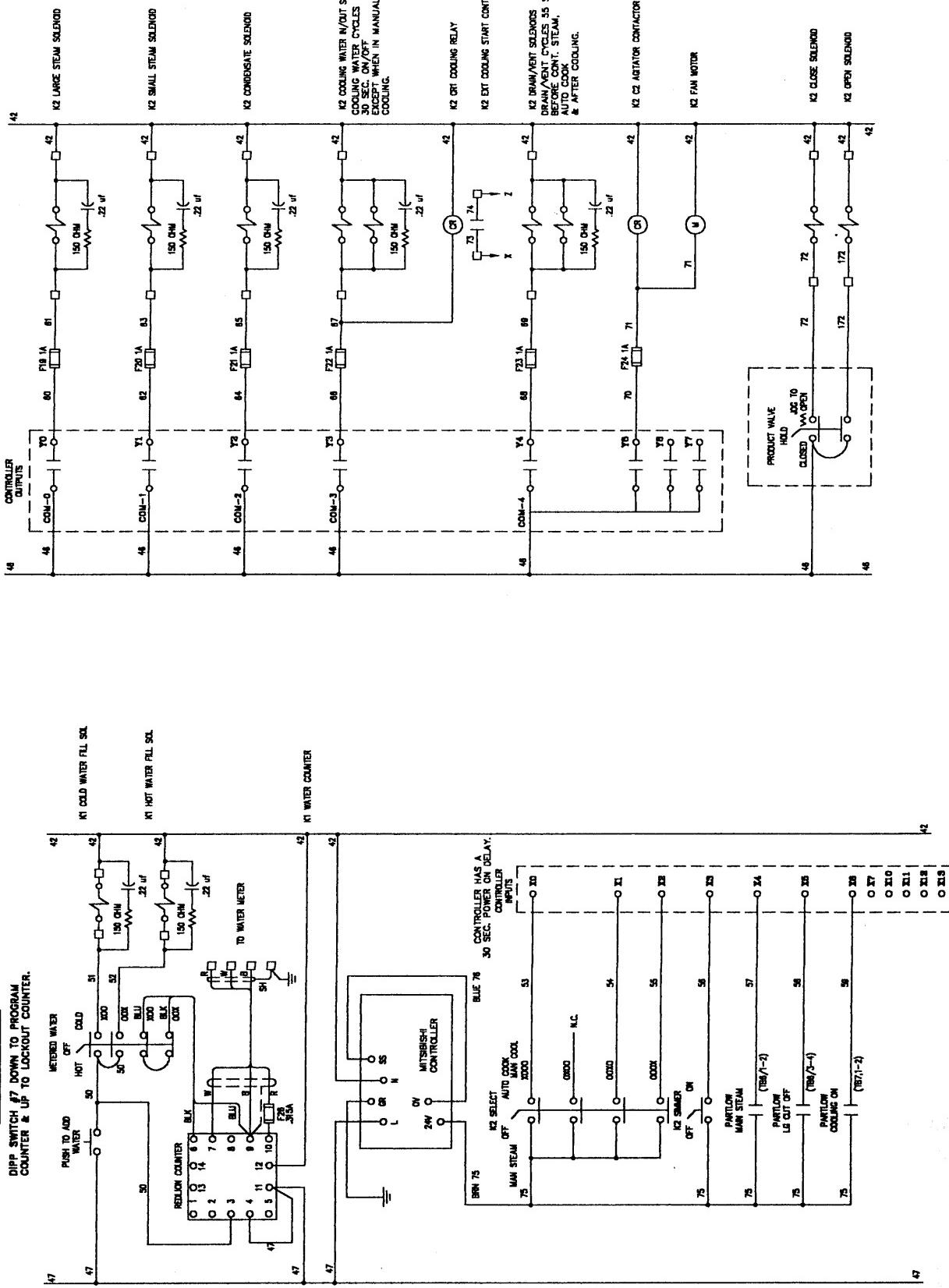


REV.	DESCRIPTION	BY	DATE	APPROVED BY	APPROVED BY	REVISIONS	ISSUED BY	ISSUED BY	DRAWING NUMBER
	J.C.PARDO & SONS INC. 1250 REAMES RD. BALTO MD. 21220 PHONE (410) 381-3800 FAX (410) 381-9848		DATE 1/28/02				ELECTRICAL SCHEMATIC 208V 5HP DUAL CONTROL PANEL HOT/COLD	C REV. NONE	ES-0301 NEXT 3 of 5

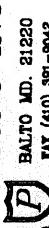
REDIJON WATER COUNTER DIPP SWITCH SETTINGS



CONTROLLER HAS A 30 SEC. POWER ON DELAY.



J.C. PARDO & SONS INC.



208V 5HP
DUAL CONTROL PANEL

HO/COLD

ES-0301

REV. C

DATE 1/28/02

APPROVED BY

NONE

REVISIONS

4 of 5

DRWING NUMBER:

ES-0301

REV. C

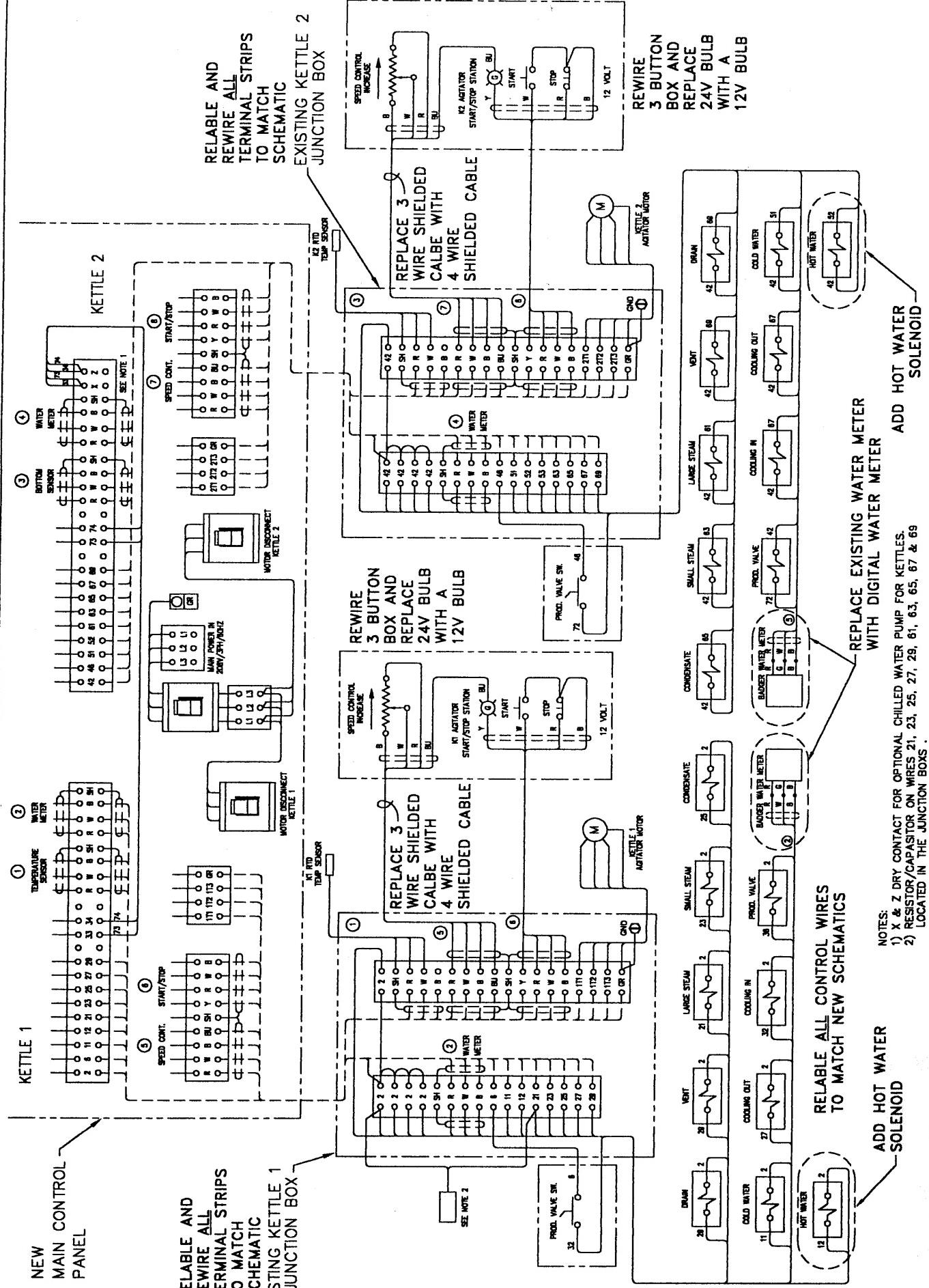
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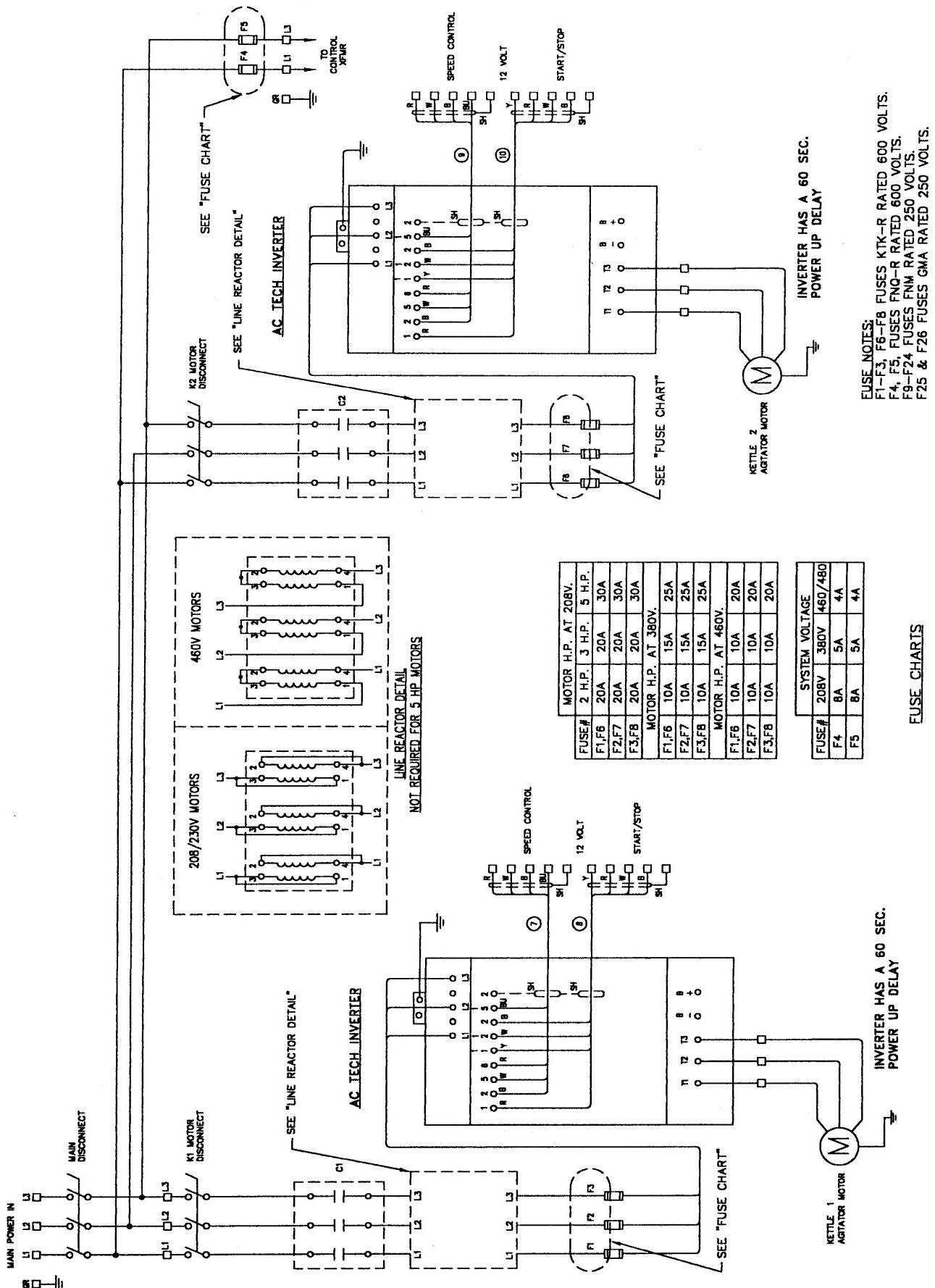
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NONE

REVISIONS

4 of 5





J.C.PARDO & SONS INC.

1250 REAMES RD.

P

BALTO MD. 21220

PHONE (410) 381-9600

FAX (410) 381-9642

REVISIONS

6/01

BY DATE

REV.

checked in **drawn in** **date**

1/28/02

APPROVED IN

REVIEWED IN

REWORKED IN

REPLACED IN

REMOVED IN

RECALLED IN

REPRINTED IN

REISSUED IN

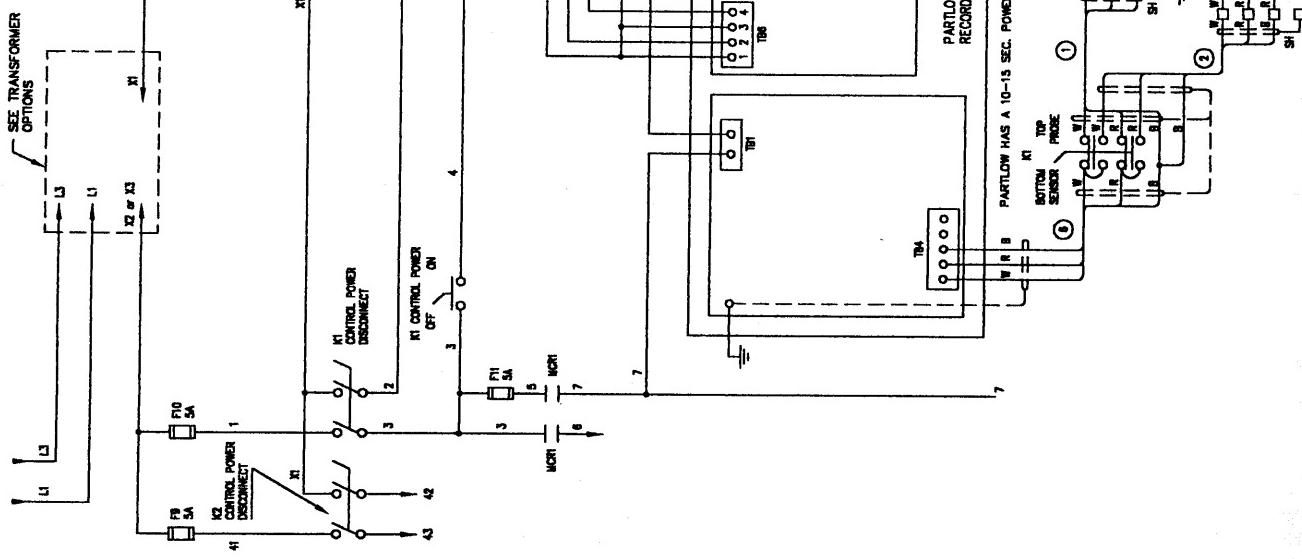
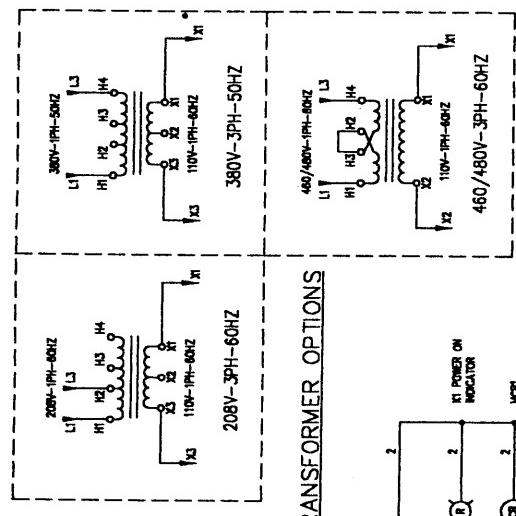
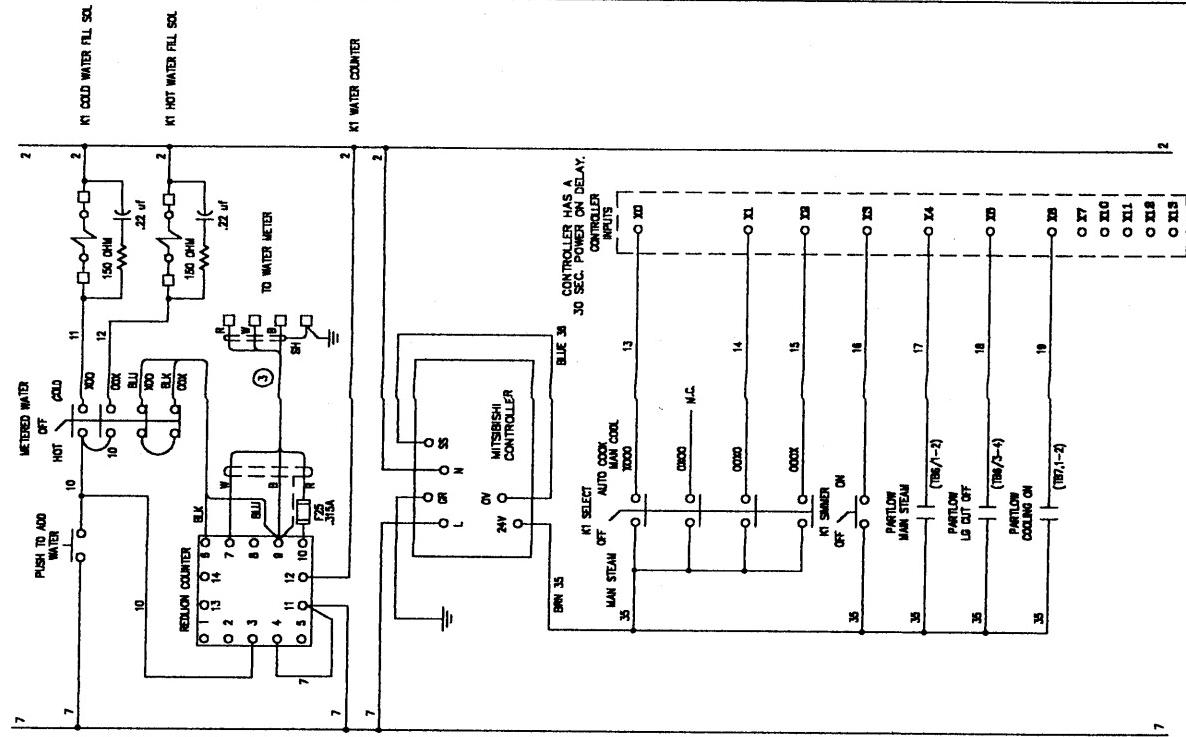
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REDLION WATER COUNTER DPIP SWITCH SETTINGS



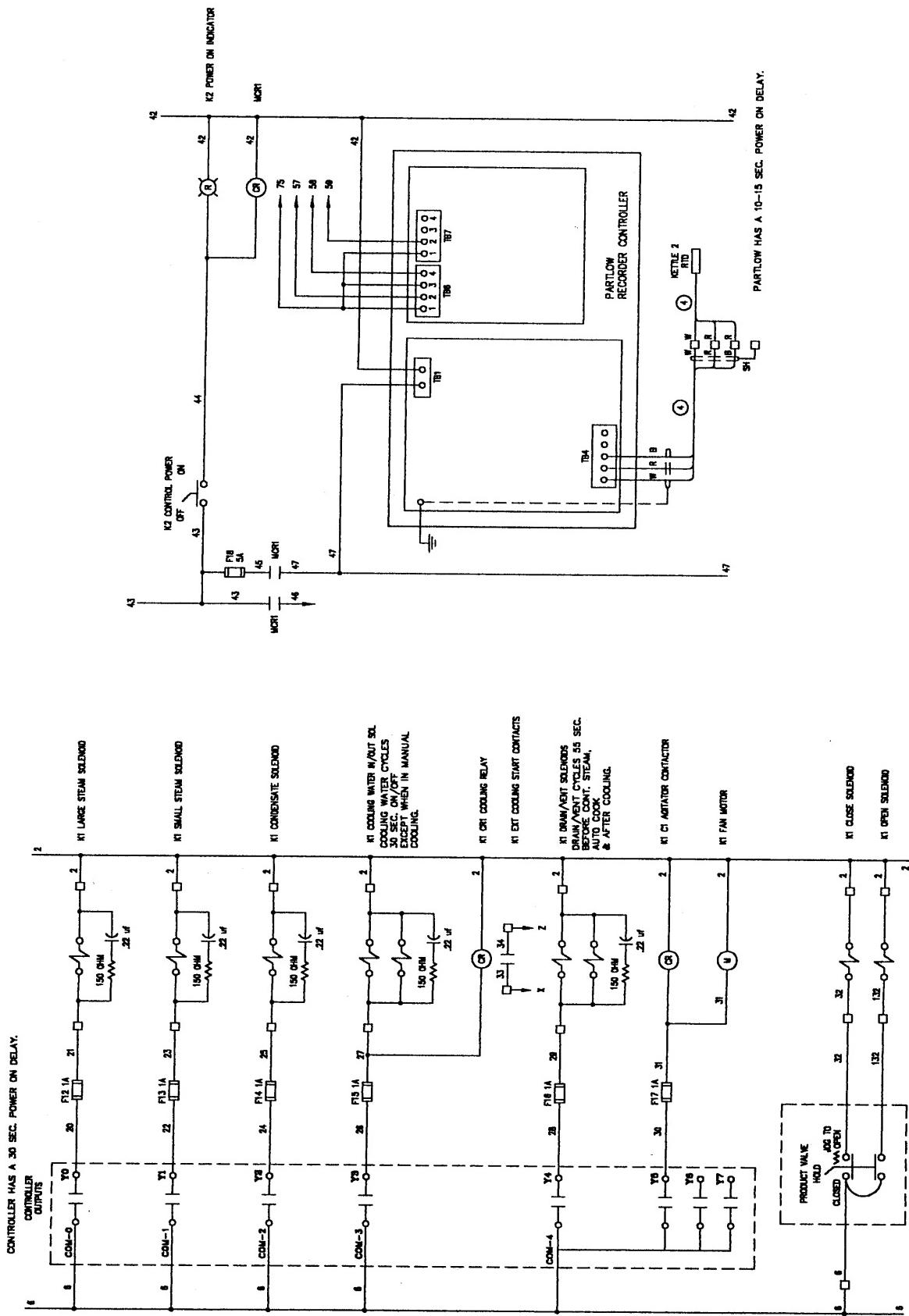
DPIP SWITCH #7 DOWN TO PROGRAM
COUNTER & UP TO LOCKOUT COUNTER.



J.C.PARDO & SONS INC.
1260 READES RD. BALTO MD. 21220
PHONE (410) 361-3800 FAX (410) 361-9042

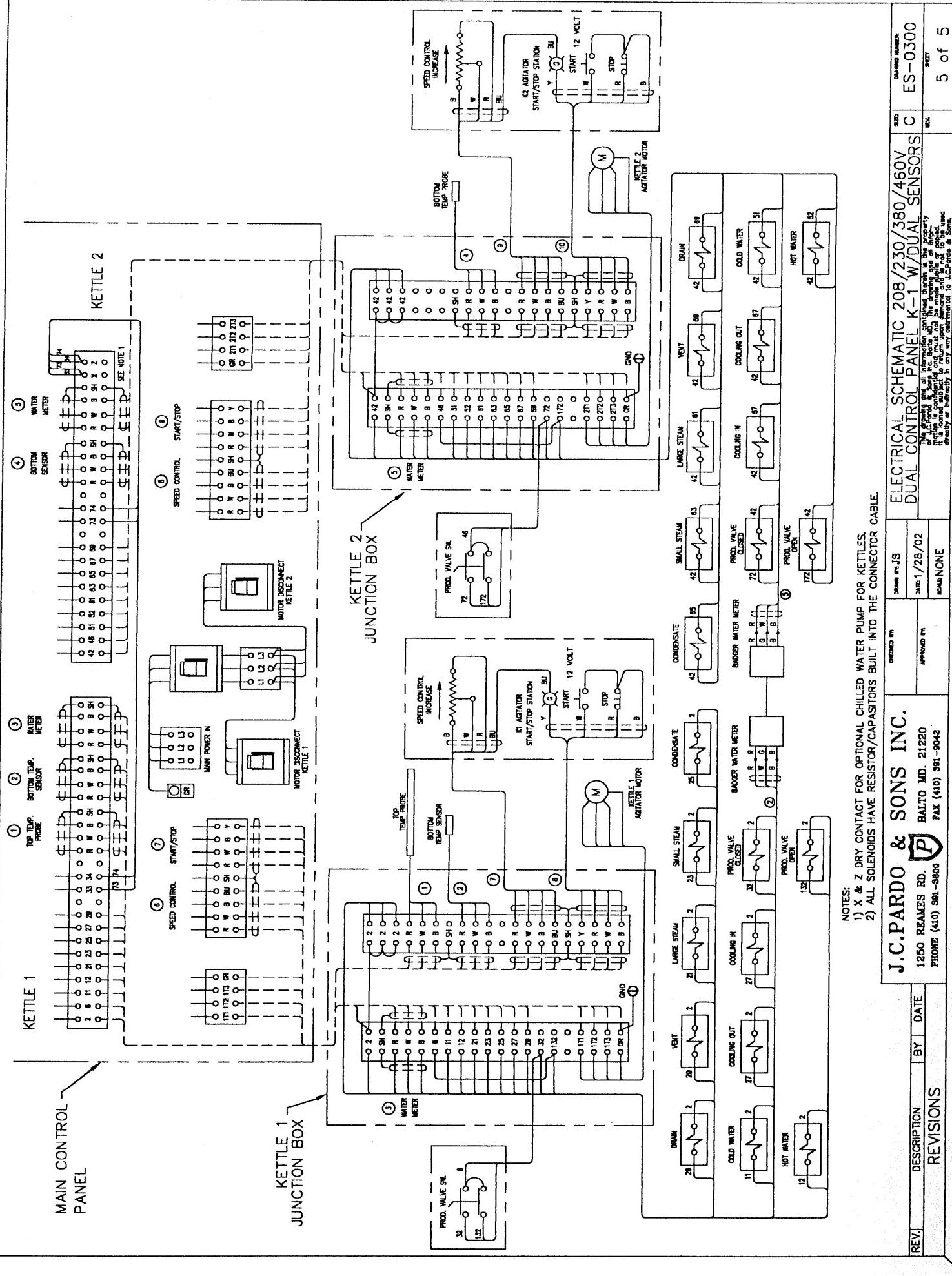
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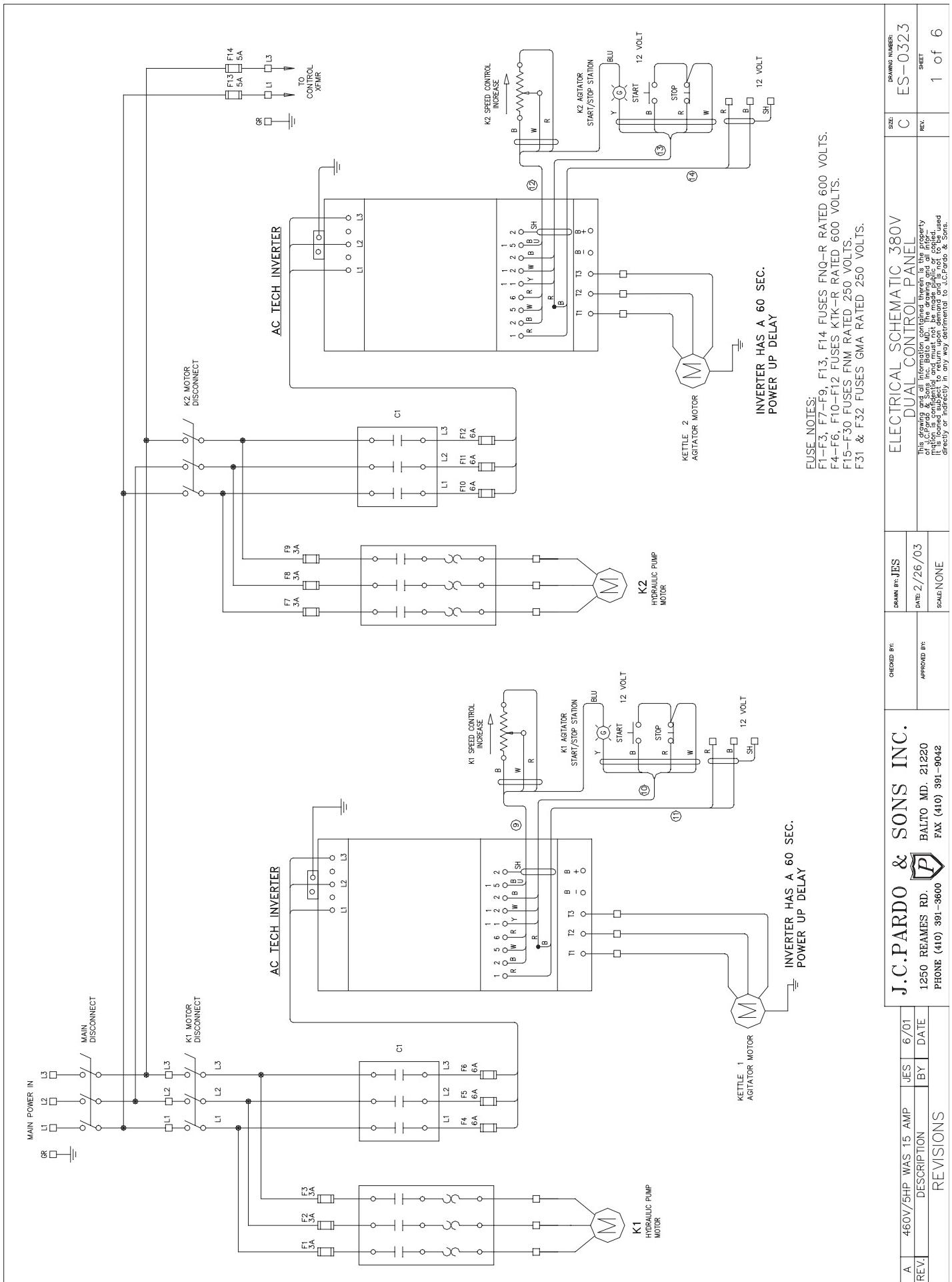
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REV: JS DATE: 1/28/02 APPROVED: NONE
REV: ES-03000 DATE: 1/28/02 APPROVED: NONE
REV: 2 OF 5

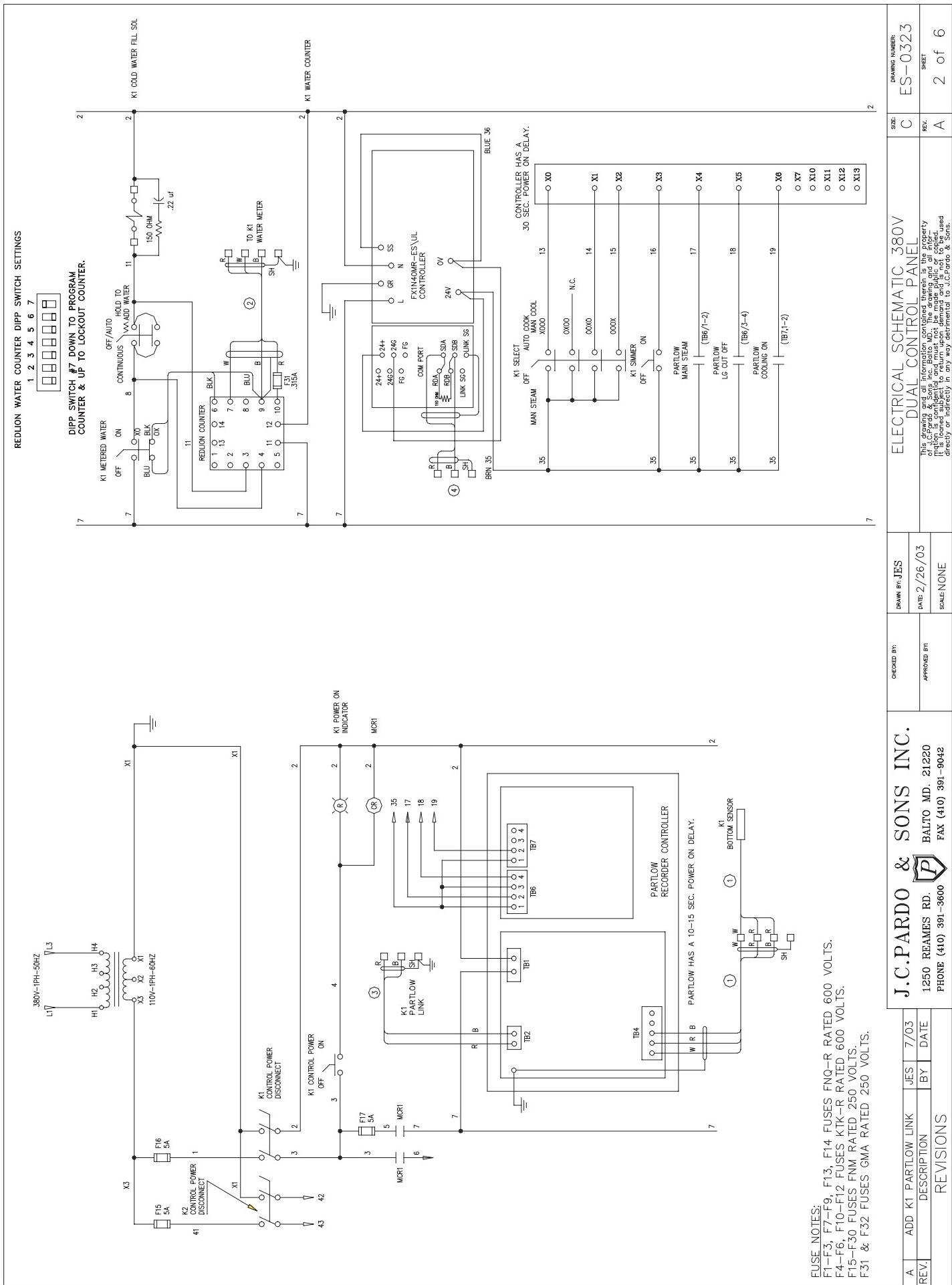


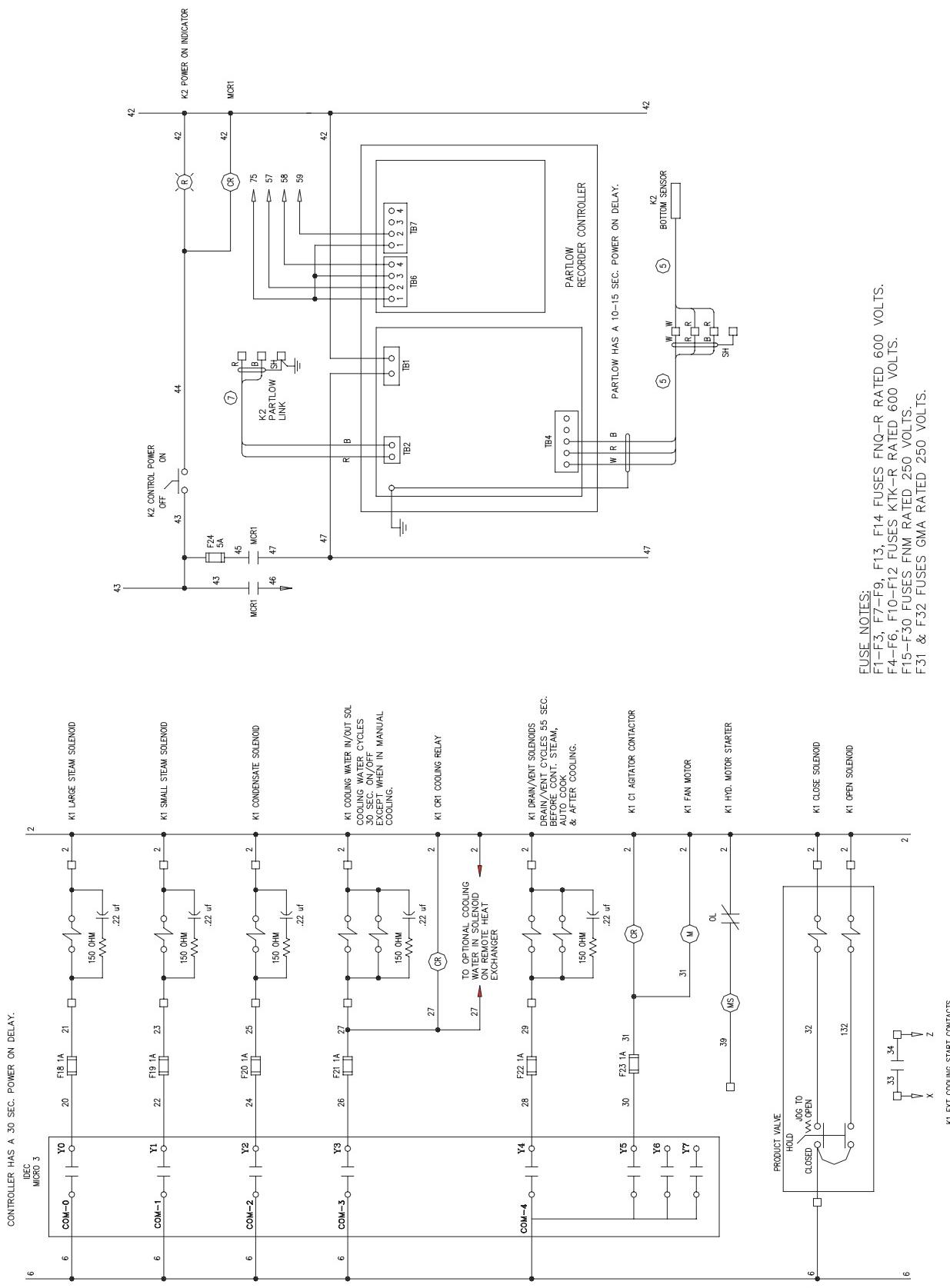
ELECTRICAL SCHEMATIC 208 / 230 / 380 / 460V DUAL CONTROL PANEL K-1 W/DUAL SENSORS		REF.	DESCRIPTION
		C	ES-0300 SWITCH

J.C.PARDO & SONS INC.			CHIEFED BY	DATE ISSUED
 BALTO MD. 21220			APPROVED BY	DATE 1/28/01
1280 REAMERS RD. PHONE (410) 581-5800				SCALE NONE
REV.	DESCRIPTION	BY	DATE	
	REVISIONS			

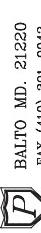




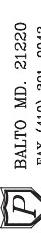




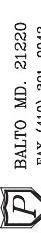
J.C.PARDO & SONS INC.		DRAWN BY: JES	DRAWN IN: 7/03	ELECTRICAL SCHEMATIC 380V	SIZE: C	DRAWING NUMBER: EES-0323
REV. A ADD K2 PARTLOW LINK		APPROVED BY: BALTO MD.	DATE: 2/26/03	DUAL CONTROL PANEL		REV. A SHEET 3 of 6
REV. B DESCRIPTION		PHONE (410) 391-3860	FAX (410) 391-9042	SCALE: NONE		



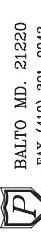
REVISIONS



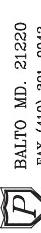
BALTO MD.



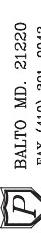
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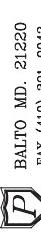
PHONE (410) 391-3860



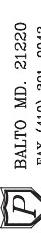
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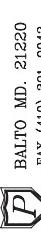
SHEET 3 of 6



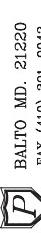
REV. A



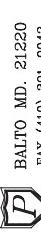
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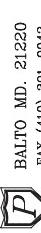
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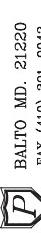
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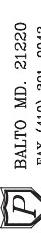
SHEET 3 of 6



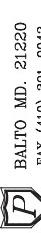
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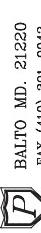
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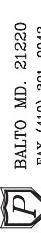
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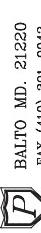
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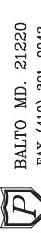
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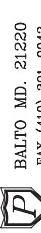
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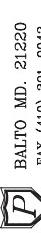
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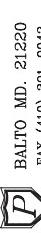
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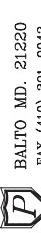
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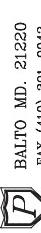
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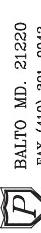
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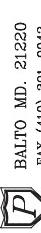
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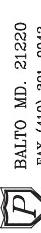
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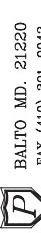
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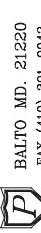
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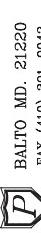
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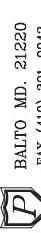
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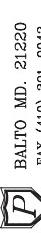
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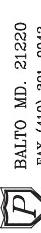
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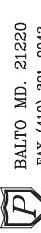
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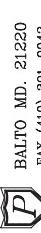
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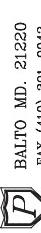
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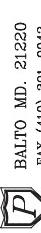
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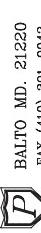
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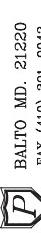
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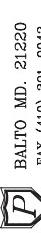
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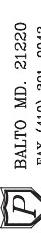
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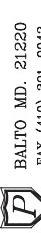
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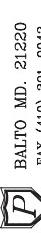
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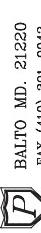
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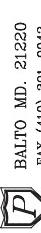
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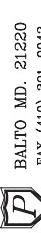
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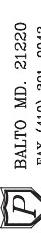
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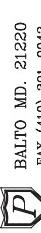
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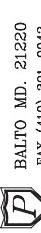
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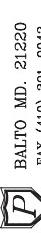
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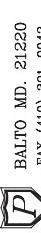
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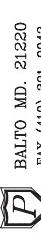
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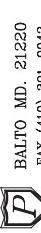
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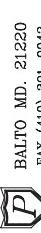
SHEET 3 of 6



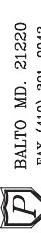
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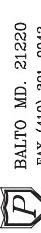
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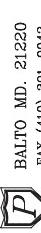
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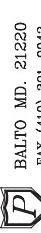
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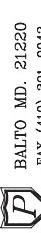
SHEET 3 of 6



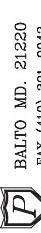
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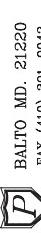
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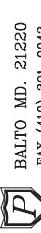
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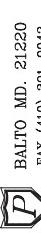
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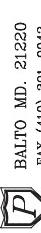
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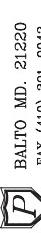
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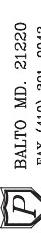
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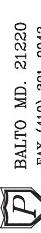
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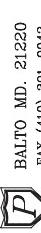
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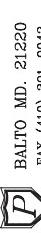
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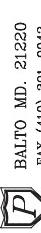
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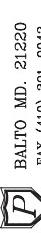
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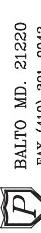
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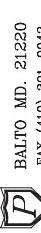
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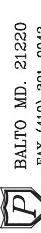
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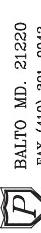
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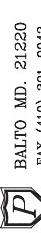
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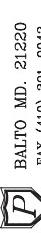
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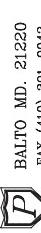
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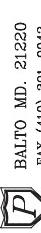
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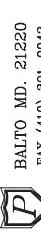
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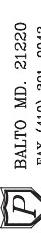
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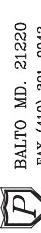
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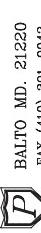
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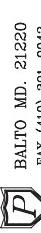
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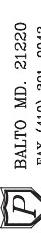
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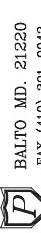
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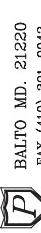
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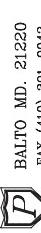
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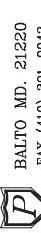
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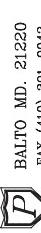
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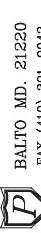
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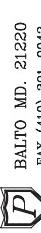
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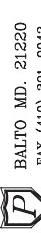
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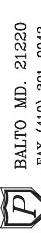
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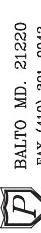
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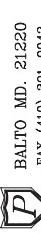
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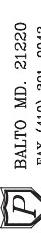
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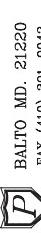
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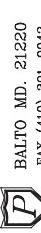
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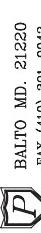
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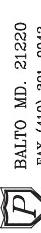
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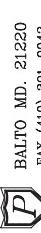
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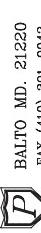
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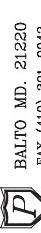
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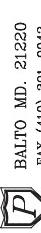
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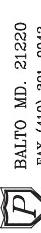
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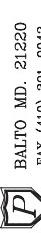
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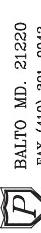
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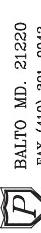
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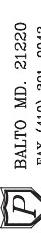
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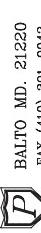
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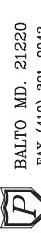
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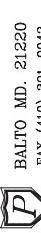
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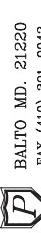
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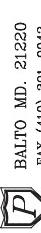
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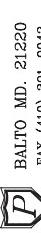
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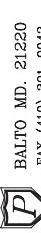
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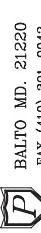
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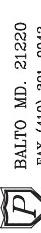
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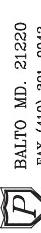
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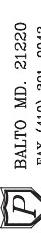
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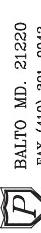
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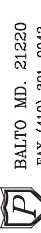
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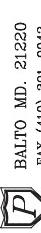
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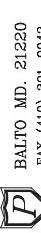
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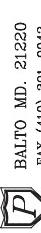
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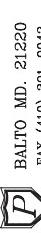
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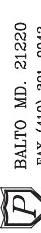
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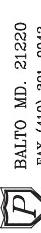
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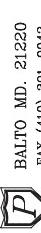
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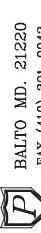
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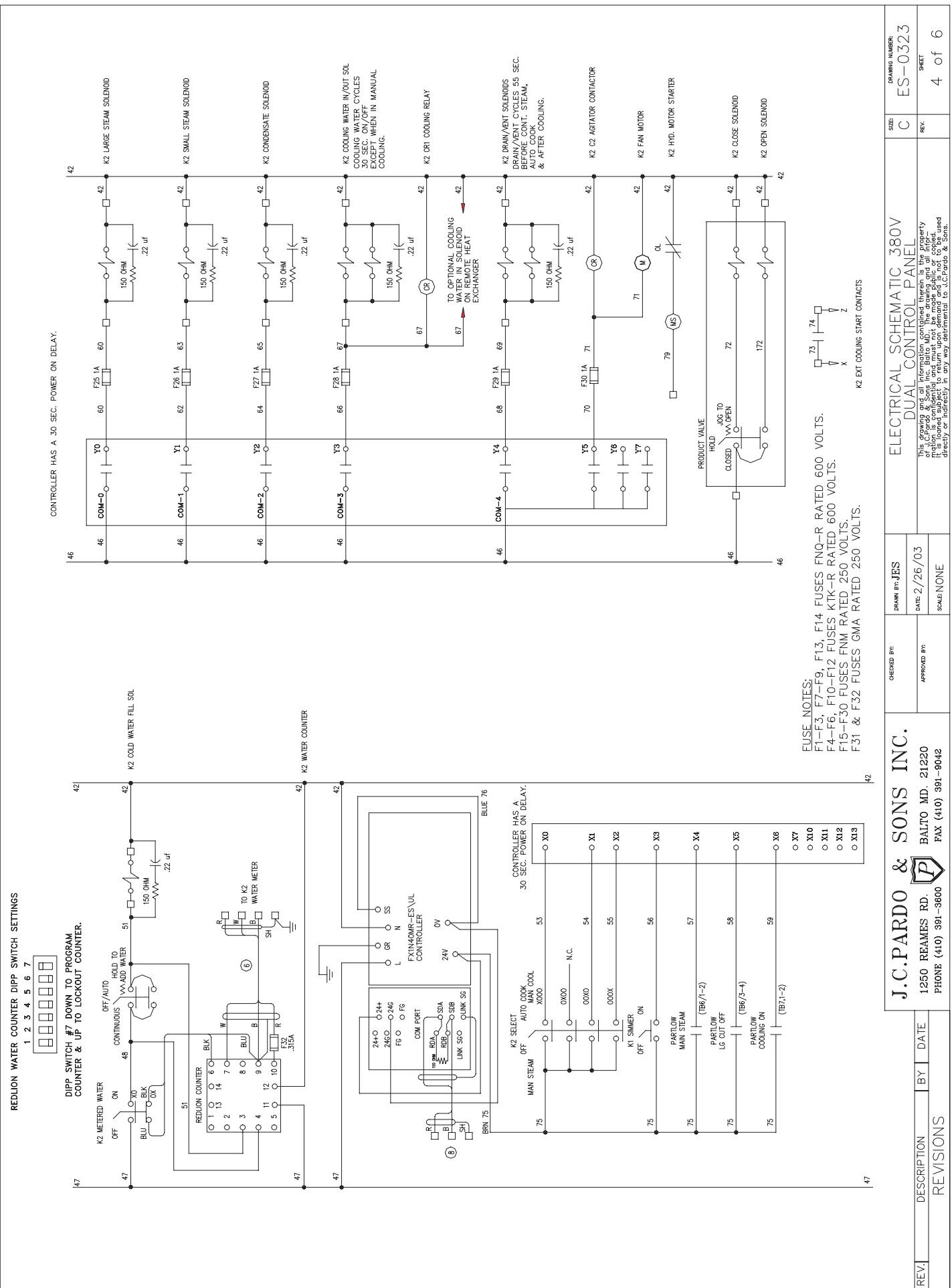
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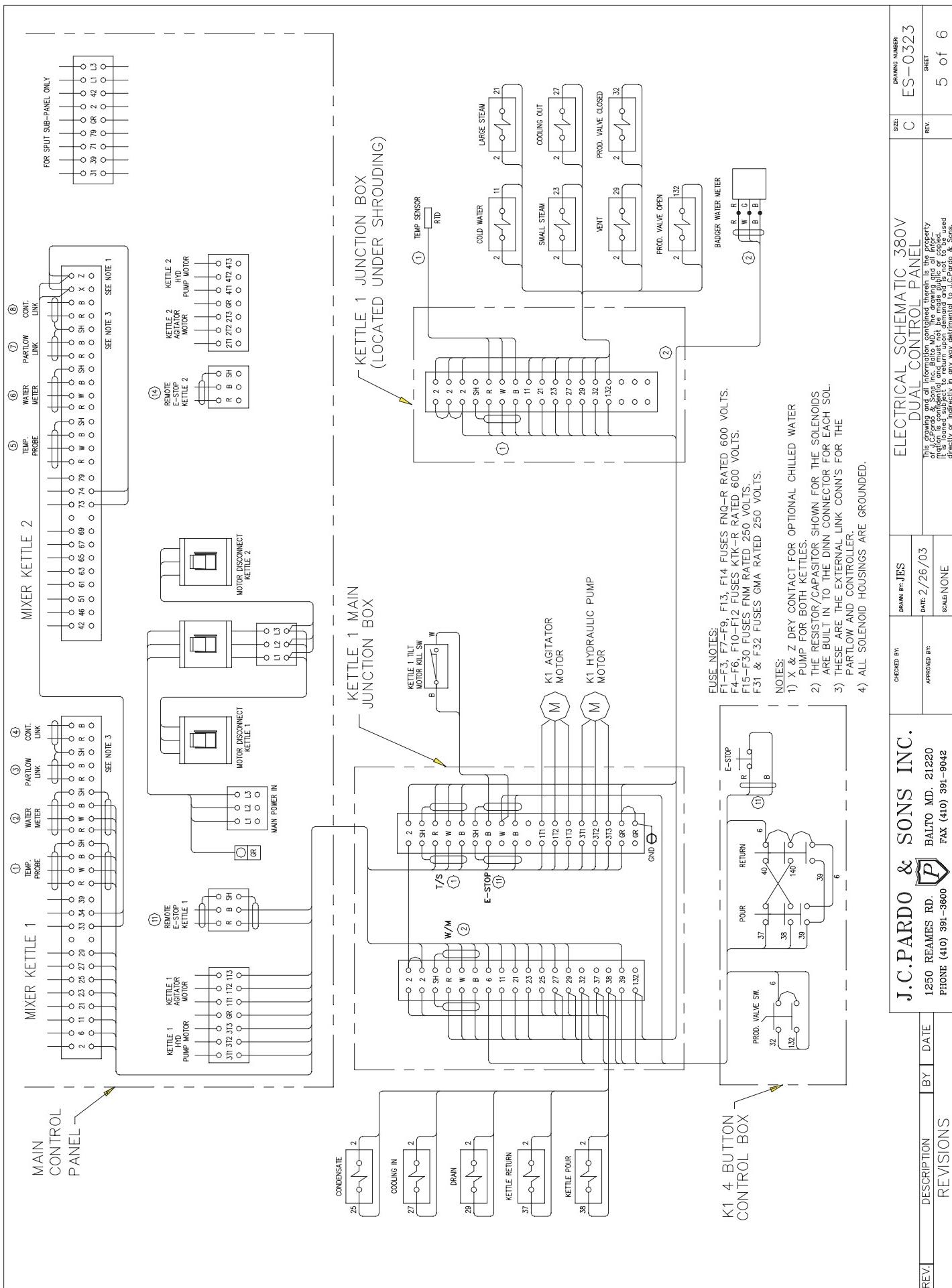


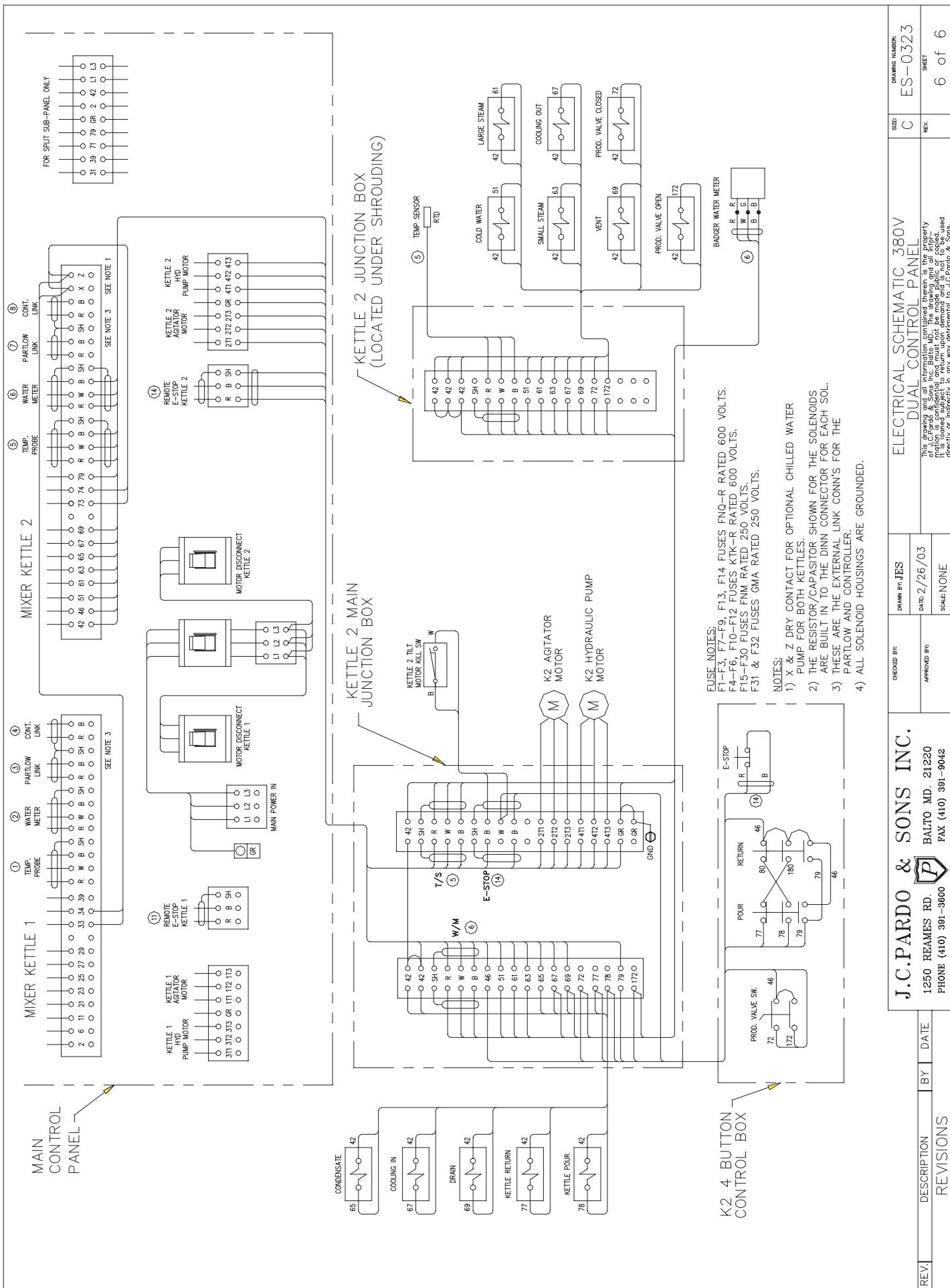
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S







FUSE CHART

FUSE NO	TYPE	VOLT	AMP
F1	FNQ-R	600	3 AMP
F2	FNQ-R	600	3 AMP
F3	FNQ-R	600	3 AMP
F4	KTK-R	600	15 AMP
F5	KTK-R	600	15 AMP
F6	KTK-R	600	15 AMP
F7	FNQ-R	600	3 AMP
F8	FNQ-R	600	3 AMP
F9	FNQ-R	600	3 AMP
F10	KTK-R	600	15 AMP
F11	KTK-R	600	15 AMP
F12	KTK-R	600	15 AMP
F13	FNQ-R	600	5 AMP
F14	FNQ-R	600	5 AMP
F15	FNM	250	5 AMP
F16	FNM	250	5 AMP
F17	FNM	250	5 AMP
F18	FNM	250	1 AMP
F19	FNM	250	1 AMP
F20	FNM	250	1 AMP
F21	FNM	250	1 AMP
F22	FNM	250	1 AMP
F23	FNM	250	1 AMP
F24	FNM	250	5 AMP
F25	FNM	250	1 AMP
F26	FNM	250	1 AMP
F27	FNM	250	1 AMP
F28	FNM	250	1 AMP
F29	FNM	250	1 AMP
F30	FNM	250	1 AMP
F31	GMA	250	.315 AMP
F32	GMA	250	.315 AMP

FIELD WIRING MUST ENTER/EXIT BOTTOM
OF ENCLOSURE OR THROUGH APPROVED FITTING.

J.C. PARDO AND SONS INC.

C.R. MODEL NO.: HA-DE-CC-2

J.C.P. MODEL NO.: FMCC-D2-K

SERIAL NO.: 8226

LARGEST MOTOR RATING: 3 H.P.

RATED VOLTAGE: 380 V.A.C.

PHASE: 3 PH

CYCLES: 50 HZ

FULL LOAD CURRENT: 18 AMPS

MINIMUM CIR. AMPACITY: 19 AMPS

MAXIMUM OVERCURRENT DEVICE: 25 AMPS

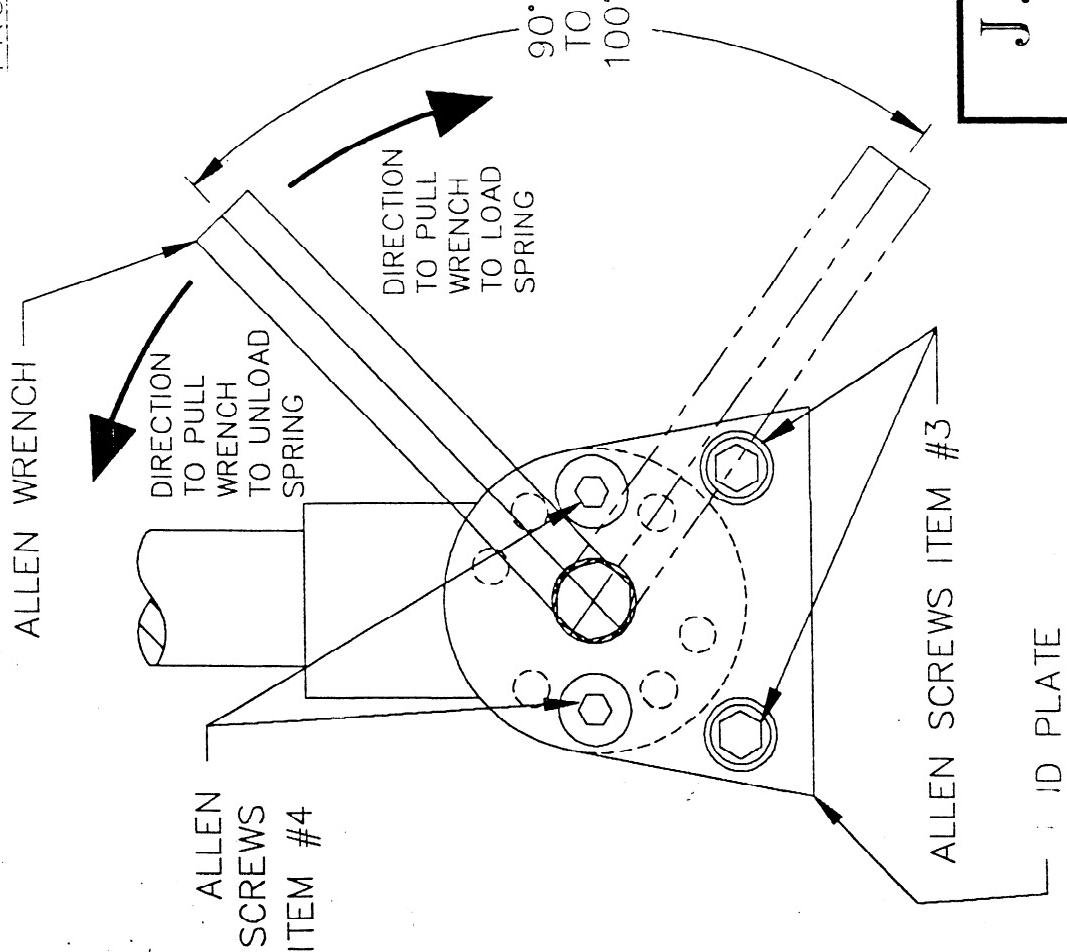
380V 3HP

PROCEDURE TO TIGHTEN SPRING IN LID ACTUATOR

1. MAKE SURE KETTLE LID IS IN THE UP POSITION
 2. HOLD TENSION ON THE ALLEN WRENCH REMOVE THE ALLEN SCREWS ITEM #4.
 3. PULL DOWN ON ALLEN WRENCH UNTIL THE 2nd SET OF HOLES APPEAR IN LINE. REINSTALL ALLEN SCREWS NOTE THE ALLEN WRENCH SHOULD TRAVEL 1/4 TURN (90° TO 100°)

PROCEDURE FOR REPLACING SPRING IN LID ACTUATOR

- A. MAKE SURE THE KETTLE LID IS IN THE UP POSITION AND PROPERLY SUPPORTED BEFORE REMOVING ANY ALLEN SCREWS.
 - B. USING THE ALLEN WRENCH HOLD TENSION ON THE SPRING WHEN REMOVING THE ALLEN SCREWS ITEM #4 USING THE ALLEN WRENCH UNLOAD THE SPRING.
 - C. CAREFULLY REMOVE THE ALLEN SCREWS ITEM #3 AND REMOVE THE END PLATE.
 - D. REMOVE THE OLD SPRING AND CENTERING ROD
 - E. GREASE NEW SPRING AND CENTERING ROD BEFORE INSTALLING THEM INTO HOUSING. NOTE USE CHESTERTON 622, USDA APPROVED, OR EQUIVALENT GREASE.
 - F. REPLACE THE END PLATE AND REPLACE THE ALLEN SCREWS ITEM #3.
 - G. USING THE ALLEN WRENCH TIGHTEN THE SPRING AND ALIGN THE HOLES REPLACE THE ALLEN SCREWS ITEM #4.



J. C. PARDO & SONS INC.

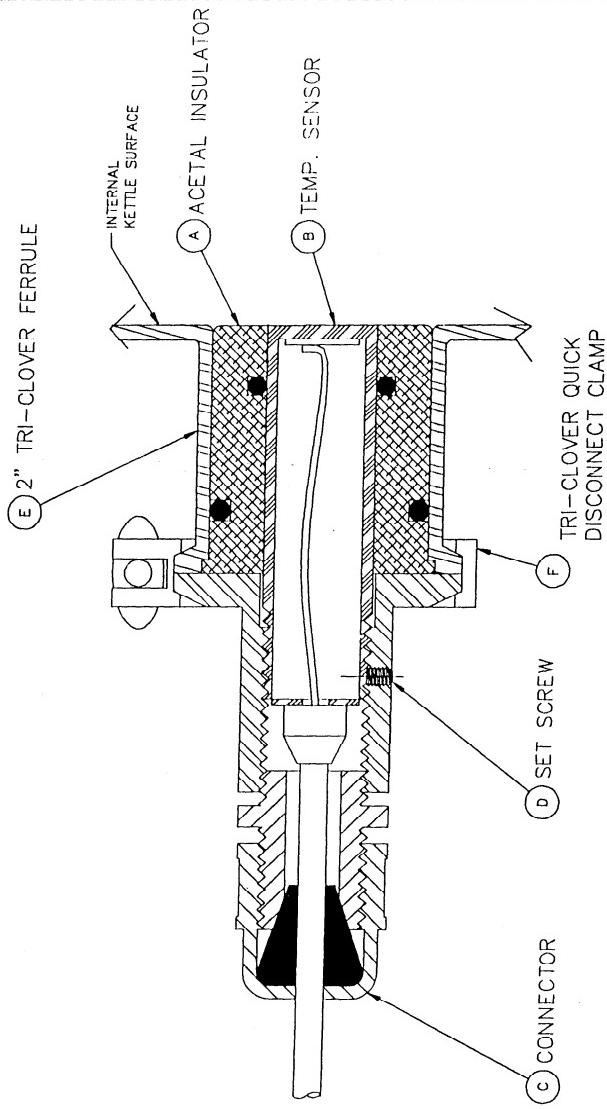


BALTO. MD. 21220

SCALE: NONE	APPROVED BY:	DRAWN BY:
DATE: 5-16-94		TIM KAHL
ACTUATOR SPRING ADJUSTMENT AND REPLACEMENT DETAIL		
SMALL ACTUATOR UP TO		REV. B
100 GALLON KETTLES		DRAWING NUMBER: 8545

INSTALLATION INSTRUCTIONS

1. INSERT PART "A" INTO KETTLE FERRULE PART "E" SO PART "A" IS FLUSH WITH INTERNAL KETTLE SURFACE $\pm .000$ TO $.032$ TO AVOID SCRAPER BLADE FROM INTERFERING WITH TEMPERATURE PROBE.
2. INSERT PART "B" ASSEMBLY INTO PART "A" AND ADJUST UNTIL SURFACE OF PART IS FLUSH WITH INTERNAL KETTLE SURFACE, SO THAT THE SCRAPER BLADE WILL WIPE THE SURFACE CLEAN. THIS MUST OCCUR TO OBTAIN AN ACCURATE TEMPERATURE READING FROM THE PROBE. FOR EASIER ADJUSTMENT OF PROBE, INSTALL O-RINGS AFTER ALL ADJUSTMENTS HAVE BEEN MADE.
3. AFTER STEPS 1 AND 2, INSTALL CLAMP "F" AND CHECK INTERNAL SURFACE WITH PROBE TO FIT THE ABOVE REQUIREMENTS. ADJUST, IF REQUIRED.
4. TIGHTEN BOTH SET SCREWS "D".
5. TIGHTEN CONNECTOR "C".
6. RUN WIRE TO JUNCTION BOX AND ATTACH TO BOX.
7. TEST TEMPERATURE PROBE TO SEE IF TEMPERATURE READING IS ACCURATE.



NOTE:
USE CHESTERTON 622, USDA APPROVED
OR EQUIVALENT ON O-RINGS BEFORE
INSTALLATION.

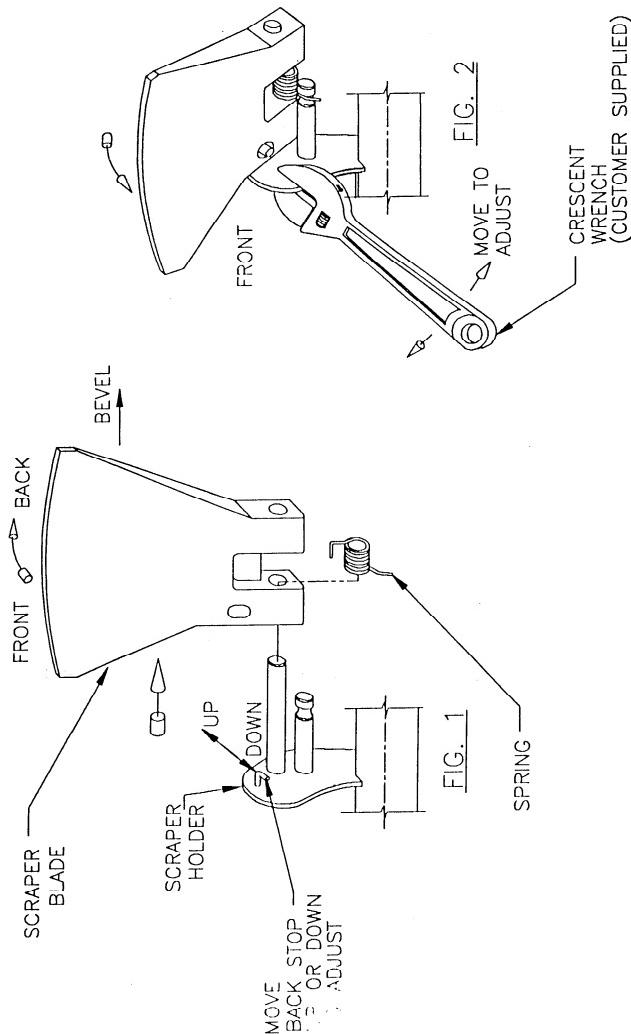
JOB #	QTY:
J.C.PARDO & SONS INC.	
1250 REAMES RD. 	BALTO, MD. 21220
DATE ISSUED	2/21/87
DATE DRAWN	2/27/85
DESIGNER	Laurie York
APPROVING ENGINEER	
TEMPERATURE SENSOR	
INSTALLATION	
SHEET 1 OF 1	C 8007 B

INSTALLATION OF NEW SCRAPER BLADE

WHEN INSTALLING A NEW SCRAPER BLADE THERE MAY BE SOME ADJUSTMENTS REQUIRED TO MAKE IT LAY FLAT TO FOLLOW THE CONTOUR OF THE KETTLE. IF THE BLADE DOES NOT FIT, YOU MAY HAVE TO GRIND EITHER THE TWO EDGES OF THE BLADE, OR THE CENTER OF THE BLADE (PER. DETAIL A).

NOTE # 1
WHEN INSTALLING A NEW SCRAPER BLADE THERE MAY BE SOME ADJUSTMENTS REQUIRED TO MAKE IT LAY FLAT TO FOLLOW THE CONTOUR OF THE KETTLE. IF THE BLADE DOES NOT FIT, YOU MAY HAVE TO GRIND EITHER THE TWO EDGES OF THE BLADE, OR THE CENTER OF THE BLADE (PER. DETAIL A).

NOTE # 2
IF ONLY ONE CORNER OF THE SCRAPER BLADE IS TOUCHING THE KETTLE SURFACE, USE A CRESCENT WRENCH AND SLIGHTLY TWIST THE SCRAPER HOLDER SO THE ENTIRE BLADE SCRAPES THE KETTLE WALL WITH EVEN PRESSURE.



DETAIL A

J□B #

<u>J.C.PARDO & SONS INC.</u>	
1250 REAMES RD.	P BALTIMORE, MD. 21220
SCALE NONE	APPROVED BY
DATE 4/25/95	Laure Yori
DRAWN BY	
REPLACEMENT AND FITTING	
SCRAPER BLADE & SPRING	
DRAWING NUMBER	REV C
SHEET 1 of 1	SIZE B
8230	

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HORIZONTAL AGITATOR KETTLE OPERATIONS AND CLEANING INSTRUCTIONS

CLEANING INSTRUCTIONS

As with all equipment that has electrical components, care must be exercised when using water and chemicals to clean food service equipment. Use a mild detergent following instructions of the chemical manufacturer. Do not spray water on electrical control panel or components. Do not use harsh or caustic chemicals, especially on o-rings and gaskets.

1. Rinse out food debris from the kettle and flush through the metering filling station (MFS or food pump) if they are still connected. If the kettle is not connected to the food pump, open the valve and allow rinse water to flush into the floor drain.
2. Remove agitator arm:
 - a. Rotate the agitator until the quick release pull pin is on the top.
 - b. Turn power to OFF as a safety precaution.
 - c. Pull pin out.
 - d. Slide coupling toward side of kettle.
 - e. Carefully lift end of agitator, pull back and lift out.
 - f. Remove bushing from shaft holder.
 - g. Remove scraper blades from agitator by using the spring removal tool provided with the kettle.
 - h. Wash agitator arm, scraper blades, and springs with mild dish detergent or in dish machine. Air dry.
3. Wash the inside of the kettle with a mild dish detergent as you would any pot or pan. Flush liquid through MFS or by opening the valve. Rinse thoroughly.
4. Remove the valve and tee from the bottom of the kettle by removing the clamp. Remove o-rings. Wash and dry thoroughly. When re-installing the valve, apply USDA approved food grade grease (Chesterton 622 or equal) to o-rings. Gently push tee and valve body in place and secure with clamps.
5. Clean outer drive shaft seal on the side of the kettle by removing thumb screws. Slide seal retainer plate and quad ring away from the kettle or shaft housing. Clean the shaft, seal and quad ring. Before re-installing, apply a liberal amount of USDA approved food grade grease to the opening around the shaft and slide quad ring back in place. Push the seal retainer place back in place and tighten with thumb screws.
6. Remove temperature sensor probe by removing clamp. Slide sensor out of seal holder. Remove o-rings. Clean sensor, seal and o-rings. Before re-installing, apply a liberal amount of USDA approved food grade grease on o-rings.

DAILY PRE-START UP

1. The operator must check the kettle, springs and scraper blades for proper installation before turning kettle on.
 2. Make sure the connecting coupling from the drive shaft to the agitator is properly installed with the quick release pin fully engaged.
 3. Label and place clean chart on chart recorder.
- If the above cannot be achieved, call your maintenance supervisor or service contractor before proceeding.

OPERATING INSTRUCTIONS HORIZONTAL MIXER KETTLE

Your kettle has been equipped with a control panel that has some or all of the following functions:

1. Main POWER switch
2. Temperature control
3. 24 hour chart recorder
4. KETTLE RUN push button
5. Agitator speed control with variable settings
6. Agitator STOP/START
7. Potable water meter with OFF/ON switch and push button to add water
8. Manual COOL water switch
9. Kettle selector switch for CONTINUOUS, OFF, COOK
10. SIMMER switch
11. Product VALVE OPEN/CLOSED

Operating the Kettle

1. To operate the system the main power switch on the control panel must be turned on. The temperature control computer will run through its diagnostics for about one minute.
2. To set desired temperature, turn switch to COOK. This activates the temperature controller. The temperature display and the actual temperature will appear. To change the temperature set point, press the push button with “+” to raise or increase the temperature or press the button with “-“ to decrease or lower the temperature.
3. Push the button marked KETTLE RUN and the steam will come on to heat the kettle and its contents until the set point temperature is reached. It will cycle off and on to maintain the set point temperature.
4. To start the agitator, press the button marked AGITATOR START and a green light will indicate the agitator is on.
5. To stop the agitator, press the red AGITATOR STOP mushroom button.
6. To change the speed of the agitator, turn the SPEED CONTROL knob to the right to increase the speed or to the left to decrease the speed. As a safety precaution, always turn the speed to “0” when kettle is not in use and before use.

-
- 7. To add ingredients to the kettle, push AGITATOR STOP button. Steam heating will continue in the jacket and the agitator must be started again as soon as possible or product might burn on the surface of the kettle.
- 8. CONTINUOUS STEAM is a manual override allowing steam into the kettle but with no temperature control.
- 9. SIMMER allows maintenance to the set point temperature but gently introduces heat into the kettle.

Ready to pump food out of kettle

- 1. Foods must be cooked to a minimum of 165°F to kill dangerous pathogens and must be at least this temperature when it casings are filled. Set temperature on the control panel to at least 165°F before pumping.
- 2. Pump food through MFS to heat hoses and MFS parts until at least 165°F can be maintained when product exits the MFS. Product may be poured back into the kettle for reheating before pumping.
- 3. Put down cover of kettle to maintain heat and to maintain a moist atmosphere in the kettle which will make cleaning easier.
- 4. Empty the kettle as quickly as possible to prevent over-cooking of product and to maintain quality, consistency and temperature.
- 5. Temperature may be turned OFF or placed on SIMMER when kettle product reaches the steam jacketed area to reduce chances of burning while pumping.

To cool and blend products without heat

- 1. Turn the main power switch to ON.
- 2. Turn the MANUAL WATER COOLING switch to ON. This will start the flow of cold water from the ice builder into the jacket of the kettle. When in this mode the temperature controller will read the temperature of the product only and serve no other function.
- 3. When cooking a product that is too hot, MANUAL COOLING can be used. Turn on MANUAL COOLING. When sufficient cooling has been achieved, turn the switch off. The kettle jacket will drain and steam will automatically come on to continue cooking if the set point has not been lowered.

To add Potable water to the kettle

- 1. Faucet handle must be completely open and the main power must be on.
- 2. Set point the volume of water needed by changing the digits on the meter.
- 3. Turn METERED WATER switch to ON. Water will begin filling the desired number of gallons and stop automatically. The amount of water that has been metered can be read above the set point.
- 4. Additional water may be metered by resetting meter and will accumulate on the meter as long as it is not turned off.
- 5. Additional water may be added by pressing the black button marked PUSH TO ADD MORE WATER.

PREVENTIVE MAINTENANCE

COOK/CHILL MIXER & PASTA KETTLES

A. AUTOMATIC DUMP VALVE

Weekly

- Check air collector regulator for moisture, dirt, and proper pressure
- Check all o-rings and seals and gaskets
- Check valve operation
- Lubricate with light oil when needed
- Check air hose for leaks or signs of wear

B. TILT MECHANISM (Hydraulic Tilt)

Weekly

- Check for leaks
- Check for smooth operation
- Check switches

Yearly

- Change hydraulic fluid every two years. (1 1/2 gallons of **FOOD GRADE** hydraulic fluid) (Shell Telis #5)

(Electric Tilt)

Weekly

- Check for smooth operation
- Check switches

Monthly

- Check for movement in mechanism
- Grease trunnions monthly (**Food Grade Grease**)

C. AIR PRESSURE

Weekly

- 45 psi dump valve - 15 psi for jacket purge
- Air must be clean and dry
- Check all air lines & fittings for leaks

D. STEAM TRAP

Monthly

- Check proper operation

PREVENTIVE MAINTENANCE

COOK/CHILL MIXER & PASTA KETTLES (continued)

E. SAFETY VALVE

Weekly

- Check for leakage
- Steam pressure 65 psi. max.
- Safety set at 100 psi.

F. LEAKS

Weekly

- Check for leaks of any type (water - steam - hydraulic)
(Leaks take away from performance and will lead to costly repair)

G. Control Panels

Weekly

- Signs of water damage
- Check operation of all controls
- Water meter operation
- Temp read outs
- Temp charting
- Temp controlling
- RTD adjustments
- Mixer operation & speed control
- Gentle heat operation
- product valve operation

HAMKDL- 60 – CC-T

- Make sure kettle is level, equipment can move as floors settle
- Make sure kettle is bolted securely to floor, bolts may loosen after time
- Check the incoming power and amp draws (per rating plate)
- Check incoming air pressure (" line 1cfm @ 90psi.)
- Check air pressure regulator/collector for draw off valve (45psi.)
- Check air pressure regulator for kettle jacket purge (15psi.)
- Check air collector regulator for moister, dirt (Must be clean & dry)
- Check all o-rings and shaft seal for wear and proper lubrication
- Check the installation 3" Flush Piston Draw Off Valve
- Check all air hoses for leaks and signs of wear
- Check incoming steam pressure (3/4"line / 320PPM / 65psi.)
- Check the steam trap for proper operation (clean or replace if needed)
- Check the operation of safety valve 100psi. rating
- Check for steam leaks (Inlets and Returns)
- Check for the proper clearance where drive shaft penetrates the kettle
- Make sure temperature sensor is properly installed
- Check chill water supply and return lines for leaks.
- Check the control panel for any signs of corrosion moisture
- Check the complete operation of all kettle controls
- Check the mixer operation (Speed control, Emergency stop)
- Check the idler bearing and idler busing for wear
- Check the kettle tilt (up and down)
- Check hydraulic fluid level
- Check hydraulic lines for leaks and signs of wear
- Change hydraulic fluid yearly (ISO 46 20 weight Food Grade)
- Grease tilt mechanism monthly (Food grade grease)
- Check the operation of 3" Flush Piston Draw Off Valve
- Check water meter operation
- Make sure the Partlow chart recorder/controller is controlling, reading, and charting correctly
- Check the cooking operation in both automatic and in manual modes
- Check the operation of gentle heat mode
- Check the operation of the chill mode
- Check kettle cover hinge tension and fasteners

HA-MKDL-100-CC-T

- Make sure kettle is level, equipment can move as floors settle
- Make sure kettle is bolted securely to floor, bolts may loosen after time
- Check the incoming power and amp draws (per rating plate)
- Check incoming air pressure (" line 1cfm @ 90psi.)
- Check air pressure regulator/collector for draw off valve (45psi.)
- Check air pressure regulator for kettle jacket purge (15psi.)
- Check air collector regulator for moister, dirt (Must be clean & dry)
- Check all o-rings and shaft seal for wear and proper lubrication
- Check the installation 3" Flush Piston Draw Off Valve
- Check all air hoses for leaks and signs of wear
- Check incoming steam pressure (3/4"line / 320PPM / 65psi.)
- Check the steam trap for proper operation (clean or replace if needed)
- Check the operation of safety valve 100psi. rating
- Check for steam leaks (Inlets and Returns)
- Check for the proper clearance where drive shaft penetrates the kettle
- Make sure temperature sensor is properly installed
- Check chill water supply and return lines for leaks.
- Check the control panel for any signs of corrosion moisture
- Check the complete operation of all kettle controls
- Check the mixer operation (Speed control, Emergency stop)
- Check the idler bearing and idler busing for wear
- Check the kettle tilt (up and down)
- Check hydraulic fluid level
- Check hydraulic lines for leaks and signs of wear
- Change hydraulic fluid yearly (ISO 46 20 weight Food Grade)
- Grease tilt mechanism monthly (Food grade grease)
- Check the operation of 3" Flush Piston Draw Off Valve
- Check water meter operation
- Make sure the Partlow chart recorder/controller is (controlling, reading, and charting correctly)
- Check the cooking operation in both automatic and in manual modes
- Check the operation of gentle heat mode
- Check the operation of the chill mode
- Check kettle cover hinge tension and fasteners

HA-MKDL-200-CC-T

- Make sure kettle is level, equipment can move as floors settle
- Make sure kettle is bolted securely to floor, bolts may loosen after time
- Check the incoming power and amp draws (per rating plate)
- Check incoming air pressure (1" line 1cfm @ 90psi.)
- Check air pressure regulator/collector for draw off valve (45psi.)
- Check air pressure regulator for kettle jacket purge (15psi.)
- Check air collector regulator for moister, dirt (Must be clean & dry)
- Check all o-rings and shaft seal for wear and proper lubrication
- Check the installation 3" Flush Piston Draw Off Valve
- Check all air hoses for leaks and signs of wear
- Check incoming steam pressure (3/4"line / 320PPM / 65psi.)
- Check the steam trap for proper operation (clean or replace if needed)
- Check the operation of safety valve 100psi. rating
- Check for steam leaks (Inlets and Returns)
- Check for the proper clearance where drive shaft penetrates the kettle
- Make sure temperature sensor is properly installed
- Check chill water supply and return lines for leaks.
- Check the control panel for any signs of corrosion moisture
- Check the complete operation of all kettle controls
- Check the mixer operation (Speed control, Emergency stop)
- Check the idler bearing and idler busing for wear
- Check the kettle tilt (up and down)
- Check hydraulic fluid level
- Check hydraulic lines for leaks and signs of wear
- Change hydraulic fluid yearly (ISO 46 20 weight Food Grade)
- Grease tilt mechanism monthly (Food grade grease)
- Check the operation of 3" Flush Piston Draw Off Valve
- Check water meter operation
- Make sure the Partlow chart recorder/controller is (controlling, reading, and charting correctly)
- Check the cooking operation in both automatic and in manual modes
- Check the operation of gentle heat mode
- Check the operation of the chill mode
- Check kettle cover hinge tension and fasteners

HA-MKDL-300-CC-T

- Make sure kettle is level, equipment can move as floors settle
- Make sure kettle is bolted securely to floor, bolts may loosen after time
- Check the incoming power and amp draws (per rating plate)
- Check incoming air pressure (" line 1cfm @ 90psi.)
- Check air pressure regulator/collector for draw off valve (45psi.)
- Check air pressure regulator for kettle jacket purge (15psi.)
- Check air collector regulator for moister, dirt (Must be clean & dry)
- Check all o-rings and shaft seal for wear and proper lubrication
- Check the installation 3" Flush Piston Draw Off Valve
- Check all air hoses for leaks and signs of wear
- Check incoming steam pressure (3/4"line / 320PPM / 65psi.)
- Check the steam trap for proper operation (clean or replace if needed)
- Check the operation of safety valve 100psi. rating
- Check for steam leaks (Inlets and Returns)
- Check for the proper clearance where drive shaft penetrates the kettle
- Make sure temperature sensor is properly installed
- Check chill water supply and return lines for leaks.
- Check the control panel for any signs of corrosion moisture
- Check the complete operation of all kettle controls
- Check the mixer operation (Speed control, Emergency stop)
- Check the idler bearing and idler busing for wear
- Check the kettle tilt (up and down)
- Check hydraulic fluid level
- Check hydraulic lines for leaks and signs of wear
- Change hydraulic fluid yearly (ISO 46 20 weight Food Grade)
- Grease tilt mechanism monthly (Food grade grease)
- Check the operation of 3" Flush Piston Draw Off Valve
- Check water meter operation
- Make sure the Partlow chart recorder/controller is(controlling, reading, and charting correctly)
- Check the cooking operation in both automatic and in manual modes
- Check the operation of gentle heat mode
- Check the operation of the chill mode
- Check kettle cover hinge tension and fasteners